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Contaminant Screening Study Libby Asbestos Site, Operable Unit 4 Libby, Montana

Final Summary Report for the Cabinet View Country Club Investigation

April 2005



Summary Report

Response Action Contract for Remedial, Enforcement Oversight, and Non-Time Critical Removal Activities at Sites of Release or Threatened Release of Hazardous Substances in EPA Region 8

U.S. EPA Contract No. 68-W5-0022

Final Summary Report

For the Cabinet View Country Club Investigation,
Contaminant Screening Study,
Libby Asbestos Site, Operable Unit 4

April 21, 2005

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Work Assignment No.: 137-RIRI-08BC

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Acronyms

below ground surface bgs CDM CDM Federal Programs Corporation **CSF** close-support facility CSS contaminant screening study CVCC Cabinet View Country Club **EPA** U. S. Environmental Protection Agency LA Libby amphibole OU operable unit PLM polarized light microscopy QA/QC quality assurance/quality control QC quality control RI remedial investigation SAP sampling and analysis plan SRC Syracuse Research Corporation VE visual area estimation % percent



Section 1 Introduction

The purpose of this report is to summarize contaminant screening study (CSS)/remedial investigation (RI) field activities conducted by CDM Federal Programs Corporation (CDM) at the Cabinet View Country Club (CVCC) in Libby, Montana between June 2004 and December 2004.

Consistent with other areas of Libby, Montana, vermiculite may have been used as base and/or fill material throughout the golf course greens, fairways, tee boxes, and sand traps. Visual inspections were performed and soil samples were collected, to determine if vermiculite and/or Libby amphibole (LA) is present in these areas of the golf course. In addition, an interior inspection of the club house and pump house were performed to determine the presence of vermiculite containing insulation. All investigation activities were conducted in accordance with the Final Sampling and Analysis Plan (SAP), Remedial Investigation (CDM 2003) and Final Sampling and Analysis Plan Addendum for the Cabinet View Country Club (SAP Addendum) (CDM 2004a).

This summary report presents verbal interview information, visual inspection results, site-specific surface soil sampling data, and dust sampling data to be used in RI decision making for CVCC.



Section 2 Field Activities

The CVCC investigation consisted of a verbal interview, visual inspection for vermiculite, and surface soil sampling. Unless noted in Section 3.1, all field documentation and sample collection procedures provided or referenced in the SAP Addendum were followed. The following sections summarize the CVCC investigation field activities.

2.1 Verbal Interview

An interview was conducted with CVCC personnel on September 30, 2004 to determine if there were any known locations of visible vermiculite on the CVCC property. During the interview it was stated that some vermiculite was brought in as fill material for tees and greens, and the pump house contained vermiculite used as insulation in an add-on section. There were no other known areas of vermiculite at the CVCC property.

2.2 Visual Inspection

As part of the CVCC investigation the club house and pump house were inspected to determine if vermiculite containing insulation or building materials were present in these structures. The results of these interior inspections are discussed in this section. The primary and secondary structure information field forms filled out during these inspections are included in Appendix A.

The only vermiculite observed during the visual inspections of the club house and the pump house was in the pump house where it appeared to have sifted into the walls of the original section and in half of the attic space at a depth of ½ inch.

In addition, during all soil sampling activities observations were made regarding any vermiculite observed. The specifics of vermiculite observed during soil sampling are discussed in Section 2.3.

2.3 Soil Sampling

Soil sampling at the CVCC was conducted in three separate events: June 2004, September 2004, and December 2004. Each sampling event is discussed in this section. Soil samples were collected, prepared, and analyzed in accordance with procedures presented or referenced in the SAP Addendum.

In total, 76 surface soil samples, 10 subsurface soil samples, and 2 samples from the bunker sand stock pile were collected during this investigation (Figure 1). As applicable to all soil samples collected under the Libby RI program, soil samples were processed at CDM's close support facility (CSF) in Denver in accordance with the soil preparation plan (CDM 2004b) and analyzed for LA asbestos using two techniques:

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polarized light microscopy (PLM) visual area estimation (VE) and the PLM gravimetric method (Syracuse Research Corporation [SRC] 2003). The U.S. Environmental Protection Agency (EPA) is in the process of evaluating the accuracy and replicatability of each of these methods. However, based on EPA's performance evaluation study to date, PLM-VE results are currently being used to make project remediation decisions. For the purposes of this report, only PLM-VE results are presented.

2.3.1 June 2004 Soil Sampling Event

On June 4, 2004, soil sampling was conducted at the #3 tee box per the EPA's request. CVCC had informed the EPA of impending repairs to the #3 tee box; therefore, EPA requested that CDM determine if LA was present in the tee box before the repairs were made.

Two five-point composite samples (CS-18555 and CS-18556) were collected from the upper and lower tee box, respectively (Figure 1). Both samples were collected from 0-8 inches below ground surface (bgs) and no visible vermiculite was observed in either sample or to an exploratory depth of 12 inches.

Sample CS-18555 collected from the upper tee box had trace amounts of LA (< 0.2 percent [%]) and sample CS-18556 was non-detect for LA. Logbook notes and field sample data sheets are provided in Appendix B, and all soil sample results are presented in Table 1.

2.3.2 September 2004 Soil Sampling Event

During the September 2004 soil sampling event, conducted from September 27th to September 30th, a total of 41 soil samples were collected. Of these 41 samples, 20 were collected from the course's greens (10 samples from 0-12"bgs and 10 samples from 12-24"bgs), 19 were collected from the course's tees with each sample from 0-8"bgs, and two were collected from the course's stockpile of sand used in the course bunkers. All samples were collected as five-point composite samples except for the samples collected from the sand stockpile, which were grab samples.

Of the 41 samples collected during the September 2004 soil sampling event, 24 field samples and one field duplicate had trace amounts (< 0.2%) of LA. These samples are shown on Figure 1, and summarized in Table 2. All other samples collected during this investigation were non-detect for LA and did not contain any visible vermiculite.

Logbook notes and field sample data sheets are provided in Appendix B, and all soil sample results are presented in Table 1.

2.3.3 December 2004 Soil Sampling Event

Due to the results of the September 2004 sampling event, EPA requested additional samples be collected from the tee and fairway areas at the CVCC. This sampling



event was conducted between December 10, 2004 and December 13, 2004. During this sampling event, 45 grab samples were collected from 0-1" bgs.

Of the 45 samples collected during the December 2004 soil sampling event, 7 samples had trace amounts (< 0.2%) of LA and 2 had concentrations of < 1% LA. These samples are shown in Figure 1 and summarized in Table 3. All other samples collected during this investigation were non-detect for LA and did not contain any visible vermiculite.

Vermiculite was not observed or detected in any of the samples collected from the fairways. Logbook notes and field sample data sheets are provided in Appendix B, and all soil sample results are presented in Table 1.

2.4 Dust Sampling

During the September 2004 sampling event, one dust sample, CS-18662, was collected from horizontal surfaces and high traffic areas of the pump house during the CVCC investigation. LA was not detected in this sample. Logbook notes and field sample data sheets are provided in Appendix B, and sample results are presented in Table 4.



Table 2. Summary of Soil Samples Collected in September 20004 that Contain LA.

Sample Index ID	Hole #	Location	Depth (inches bgs)	LA (%)	Comments on Visible Vermiculite
CS-18621		Green	0-12	TR	Vermiculite was observed in the center and eastern subsamples
CS-18623	9	Men's tee	0-8	TR	Visible tailings materials 4-8"bgs in subsamples
CS-18624		Women's tee	0-8	TR	No visible vermiculite
CS-18625	1	Men's tee	0-8	TR	No visible vermiculite
.CS-18627	1	Green	0-12	TR	No visible vermiculite
CS-18630	_	Tee	0-8	TR	No visible vermiculite
CS-18631	2	Green	0-12	TR	No visible vermiculite
CS-18632]	Green	12-24	TR	No visible vermiculite
CS-18635	3	Green	0-12	TR	No visible vermiculite
CS-18638	4	Green	0-12	TR	No visible vermiculite
CS-18640		Men's tee	0-8	TR	No visible vermiculite
CS-18642	5	Women's tee	0-8	TR	No visible vermiculite
CS-18643	1	Green	0-12	TŘ	No visible vermiculite
CS-18645		Men's long tee	0-8	TR	No visible vermiculite
CS-18646*	6	Men's long tee	0-8	TR	No visible vermiculite
CS-18648		Women's tee	0-8	TR	No visible vermiculite
CS-18649	6	Green	0-12	TR	No visible vermiculite
CS-18652	7	Women's tee	0-8	TR	Few vermiculite flakes visible in 1 subsample
CS-18653	1	Green	0-12	TR	Vermiculite visible 4-8"bgs in 3
CS-18654		Green	12-24	TR	No visible vermiculite
CS-18656	8	Men's tee	0-8	TR	No visible vermiculite
CS-18657	1 -	Green	0-12	TR	No visible vermiculite
CS-18658	1	Green	12-24	TR	No visible vermiculite
CS-18661	1	Tee and practice	0-8	TR	No visible vermiculite

^{*}Duplicate sample of CS-18645; bgs – below ground surface; TR – trace (<.0.2%)



Table3. Summary of Soil Samples Collected in December 20004 that Contain LA.

Sample Index ID	Hole #	Location	Depth (inches bgs)	LA (%)	Comments on Visible Vermiculite
CS-18681	1	Men's tee	0-1	TR	No visible vermiculite
CS-18697	5	Men's tee	0-1	TR	No visible vermiculite
CS-18699		Women's	0-1	TR	No visible vermiculite
CS-18704		Men's long	0-1	TR	No visible vermiculite
CS-18705	6	Men's short	0-1	TR	No visible vermiculite
CS-18706		Women's	0-1	TR	No visible vermiculite
CS-18714	8	Women's	0-1	TR	No visible vermiculite
CS-18718	9	Men's tee	0-1	<1	Vermiculite observed
CS-18719		Women's	0-1	<1	No visible vermiculite

bgs - below ground surface; TR - trace (<0.2%)

Section 3 Quality Assurance/Quality Control

CDM has established a formal quality assurance program to ensure consistently high quality project deliverables under its Response Action Contract with EPA. For work conducted by CDM in Libby, quality assurance/quality control (QA/QC) measures include the collection of quality control (QC) samples (such as soil duplicate samples and equipment blanks), implementation of a laboratory quality assurance program, review of project reports by a CDM-approved quality assurance staff member, and an auditing component to assess the effectiveness of the quality assurance program. The following sections describe deviations from the SAP Addendum and the implications of those deviations on project or data quality objectives.

3.1 Deviations from the Sampling and Analysis Plan Addendum

All requirements detailed in the SAP Addendum were met without exceptions.

3.2 Achievement of Data Quality Objectives

The data quality objectives of this investigation were met.

3.3 Data Validation and Reporting

None of the analytical data contained in this report was further validated beyond that performed by the laboratory as part of their QA/QC program. Therefore, it is assumed that the raw data are useable for their intended purpose, which is to determine the extent of LA asbestos contamination at the CVCC.



Section 4 References

CDM. 2003. Final Sampling and Analysis Plan, Remedial Investigation, Libby Asbestos Site, Operable Unit 4. May.

______. 2004a. Sampling and Analysis Plan Addendum for the Cabinet View Country Club. July.

______. 2004b. Close Support Facility, Soil Preparation Plan (Revision No. 1), Libby, Montana Asbestos Project, Sample Processing. March.

SRC. 2003. Analysis of Asbestos Fibers in Soil by Polarized Light Microscopy. SRC-LIBBY-03 (Rev. 0). March 3, 2003.



Table 1 Results of Soil Samples Collected During Investigations at CVCC

			Location Description	 			Sample		Pi	LM	
Sample ID	Parent ID	Property Group (Location)	(Sub Location)	Media Type	Matrix	Category	Date	Method	LA Bin	LA (%)	C (%)
20 40000 004		378 Cabinet View Rd - Cabinet	Hole #3 lee-box (upper)	Cod Libra	Surface and	Clair Cample	6/4/2004	PLM-VE	54		ND
C9-18555-FG1		View Country Club 378 Cabinet View Rd - Cabinet	Large as general (abbat)	Soil-Like	Surface soil	Field Sample	0/4/2004	PLM-VE .	<u>B1</u>	TR	 ND
CS-18556-FG1		View Country Club	Hole #3 tee-box (lower)	Soil-Like	Surface soil	Field Sample	6/4/2004	PLM-VE	_ A	ND	ND
		378 Cabinet View Rd - Cabinet	(total ito (caracox (nome))	- Juli-Liko	Odriace 30ii	rieid Gainpis	W4/200-1	T CIVI-V C	- 	 "" -	-1 '\'
CS-18621-FG1		View Country Club	Hole #9 green	Soll-Like	Surfece soil	Field Sample	9/27/2004	PLALVE	B1	TR	ND
30-100#1-1-01		378 Cabinet View Rd - Cabinet	rioto no podit			T IOIO CERTIFIC	0/2//2001		<u> </u>	'''\	
CS-18622-FG1		View Country Club	Hole #9 green	Soil-Like	Subsurface soil	Field Sample	9/27/2004	PLM-VE	A	ND	ND
		378 Cabinet View Rd - Cabinet									1
CS-18623-FG1		View Country Club	Hole #9 men's tee	Soil-Like	Surface soil	Field Sample	9/27/2004	PLM-VE	81	TR	ND
		378 Cabinet View Rd - Cabinet	Hole #9 women's tee								
CS-18624-FG1		View Country Club	(combined)	Soil-Like	Surface soil	Field Sample	9/27/2004	PLM-VE	B1	TR	ND
	: <u></u>	376 Cabinet View Rd - Cabinet					,				T
CS-18625-FG1		View Country Club	Hole #1 men's short tee	Soil-Like	Surface soil	Field Sample	9/27/2004	PLM-VE	B1	TR	TR
		378 Cabinet View Rd - Cabinet				1				· · ·	1 1 "
CS-18626-FG1		View Country Club	Hole # 1 women's short tee	Soil-Like	Surface soil	Field Sample	9/27/2004	PLM-VE	Α	ND	ND
		378 Cabinet View Rd - Cabinet		· ·						{:- -	1 1
CS-18627-FG1	<u> </u>	View Country Club	Hole #1 green	Soll-Like	Surface soil	Field Sample	9/27/2004	PLM-VE	B1	TR	ND
	1	378 Cabinet View Rd - Cabinet	l i							ll	11
CS-18628-FG1		View Country Club	Hole #1 green	Soil-Like	Subsurface soil	Field Sample	9/27/2004	PLM-VE	Α	ND	ND
	}	378 Cabinet View Rd - Cabinet			l		l		٠ <u>ـ .</u> .	1l	11
CS-18630-FG1		View Country Club	Hole #2 tee	Soil-Like	Surface soil	Field Sample	9/28/2004	PLM-VE	B1	TR	ND
	1	378 Cabinet View Rd - Cabinet		0-715-						TR	ND
CS-18631-FG1		View Country Club	Hole #2 green	Soil-Like	Surface soil	Field Sample	9/28/2004	PLM-VE	Bt	' K	 ND
CC 10033 EC4	1	378 Cabinet View Rd - Cabinet	Hole #2 green	Soil-Like	Subsurface soil	Field Sample	9/26/2004	le u ve	B1	TR	ND
CS-18632-FG1		View Country Club 378 Cabinet View Rd - Cabinet	radio az grecii	- SON-LIKE	GUDSUNBUE SON	LIGIT 281-ths	#20/200 -1	LUMPAC		1171	- "U
CS-18633-FG1		View Country Club	Hole #11 green	Soil-Like	Surface soil	Field Sample	9/28/2004	PI MLVE	A	ND	TR
03-100334-01		378 Cabinet View Rd - Cabinet	Tible #11 giccii	- GON-LING	Canace son	TIEID Gampie	3/20/2004	I CIM- V C	^	1.40	- ```
CS-18634-FG1		View Country Club	Hote #11 green	Soil-Like	Subsurface soil	Field Sample	9/28/2004	PLM-VE	A	NO	ND
00 10004 1 0 1	-	378 Cabinet View Rd - Cabinet	110.0 # 11 groun			Tiola College	0.20.200		 : : -	 	-
CS-18635-FG1		View Country Club	Hole #3 green	Soil-Like ·	Surface soil	Field Sample	9/28/2004	PLM-VE	B1	TR	ND
		378 Cabinet View Rd - Cabinet									1
C\$-18636-FG1	Ì	View Country Club	Hole #3 green	Soil-Like	Subsurface soil	Field Sample	9/28/2004	PLM-VE) A	ND	NO
	·	378 Cabinet View Rd - Cabinet									
CS-18637-FG1] .	View Country Club	Hole #4 tee box	Soil-Like	Surface soil	Field Sample	9/28/2004	PLM-VE	Α	ND	NO
		378 Cabinet View Rd - Cebinet									
CS-18638-FG1	<u> </u>	View Country Club	Hole #4 green	Scil-Like_	Surface soil	Fleid Sample	9/28/2004	PLM-VE	B1	TR	ND
_		378 Cabinet View Rd - Cabinet	F -]				1		1 [-
CS-18639-FG1		View Country Club	Hole #4 green	Soil-Like	Subsurface soil	Field Sample	9/28/2004	PLM-VE	A	ND	ND
	ŀ	378 Cabinet View Rd - Cabinet			l		14	L	·	ll /	- FI
CS-18640-FG1	· ·	View Country Club	Hote #5 men's tee	Soll-Like	Surface soil	Field Sample	9/26/2004	PLM-VE	B1	TR	ND
	İ	378 Cabinet View Rd - Cabinet			l	l _,	l	L	١.	ll	1
CS-18641-FG1	ļ	View Country Club	Hole #5 women's short tee	Soil-Like	Surface soil	Field Sample	9/28/2004	PLM-VE	A	ND	NO
	[378 Cabinet View Rd - Cabinet	(المراجعة المراجعة		l =		10.44.45	ļ	TR	امينا
CS-18642-FG1	 	View Country Club	Hole #5 women's long tee	Soil-Like	Surface soil	Field Sample	9/28/2004	ILTM-AF	B1	I IK	ND
00 10010 501		376 Cabinet View Rd - Cabinet	Hale #5 emon	Con Libe	Surface soil	Circlet Compile	Onenoce.	D 14 1/6	٠	TR _	ND
CS-18643-FG1		View Country Club 378 Cabinet View Rd - Cabinet	Hole #5 green	Soil-Like	OUNBUS SOIL	Field Sample	9/26/2004	ILMHAE	81	'K	- [UN]
CC.10644 EC4	1		Holo #5 green	Soit the	Subsurface soil	Field Sample	0/20/2004	DIM VE		ND	NO
CS-18644-FG1	 	View Country Club 378 Cabinet View Rd - Cabinet	Hole #5 green	Soil-Like	Substitute still	Field Sample	9/28/2004	IL CMI-AC	A	ND	
•	,		Hole #6 men's long tee	Soil-Like	Surface soil	Field Sample	9/29/2004	Lance	_ B1 _	TR	ND

Table 1 Results of Soil Samples Collected During Investigations at CVCC

			Location Description				Sample		Pi	LM			
Sample ID	Parent ID	Property Group (Location)	(Sub Location)	Media Type	Matrix	Category	Date	Method	LA Bin	Į,	A (%)	С	(%)
CS-18848-FG1	CS-18645		Hole #6 men's long tee	SoiH.ike	Surface soil	Field Duplicate	9/29/2004	PLM-VE	B1	TR	7	ND	
CS-18647-FG1		378 Cabinet View Rd - Cabinet View Country Club	Hole #6 men's short tee	Soil-Like	Surface soil	Field Sample	9/29/2004	DI MANG		ND		ND	
00-100-11-1-01		378 Cabinet View Rd - Cabinet	Tota we men a short tee	OOII-FIXE	Junace 3011	1 teld dample	312312004	LEIM-AE	- ^-	IND		''''	
CŞ-18648-FG1			Hole #8 women's tee box	Soll-Like	Surface soil	Field Sample	9/29/2004	PLM-VE	B1	TR	. 1	ND	
		378 Cabinet View Rd - Cabinet							-		\neg		
CS-16649-FG1			Hole #6 green	Soil-Like	Surface soil	Field Sample	9/29/2004	PLM-VE _	<u>B1</u>	TR		NO	
· -		378 Cabinet View Rd - Cabinet								П	\Box	\Box	
CS-18650-FG1		View Country Club	Hole #6 green	Soil-Like	Subsurface soil	Field Sample	9/29/2004	PLM-VE	A	ND		ND	
	1	378 Cabinet View Rd - Cabinet							l .	ll	.]		
CS-18651-FG1	-	View Country Club	Hole #7 men's long tee box	Soil-Like	Surface soil	Field Sample	9/29/2004	PLM-VE	A	ND		ND	
CS-18652-FG1		376 Cabinet View Rd - Cabinet View Country Club	Hole #7 Womens short	Soil-Like	Surface soll	Field Sample	9/29/2004	DI MANGE	В1	TR	Į	ND	
10002TG1	 	378 Cabinet View Rd - Cabinet	THE STATE OF THE PARTY OF THE P	- SUITLING	Suitable SUH	C HORD CHIRTH	0/40/4VU-1	L CINT AC	 '	 '`` 		-724	
CS-18653-FG1		View Country Club	Hole #7 green	Soll-Like	Surface soil	Field Sample	9/29/2004	PLM-VE	B1	TR		ND	
		378 Cabinet View Rd - Cabinet								 		~~ †	
CS-18654-FG1		View Country Club	Hole #7 green	Soll-Like	Subsurface soil	Field Sample	9/29/2004	PLM-VE	B1	TR		ND	
		378 Cabinet View Rd - Cabinet					,			П		~	
CS-18655-FG <u>1</u>		View Country Club	Hole #8 women's tee box	Soil-Like	Surface soil	Field Sample	9/29/2004	PLM-VE	Α	ND		ND	
		378 Cabinet View Rd - Cabinet	I							F 1		- 1	
CS-18656-FG1		View Country Club	Hole #8 men's tee box	Soil-Like	Surface soil	Field Sample	9/29/2004	PLM-VE	B1 ·	TR		ND	
nin 40055 504		378 Cabinet View Rd - Cabinet		A - 11 4 14 -	Durána a an N				١	1_	. 1		
CS-18657-FG1		View Country Club 378 Cabinet View Rd - Cabinet	Hole #8 green	Soil-Like	Surface soil	Field Sample	9/29/2004	PLM-VE	81	TR	\longrightarrow	ND	—
CS-18656-FG1			Hole #8 green	Soil-Like	Subsurface soil	Field Sample	9/29/2004	PILLVE	B1	TR		ND	
00 1000 101		378 Cabinet View Rd - Cabinet	r coo ao groon	- CON LIND	56550:11255 5611	1 1000 000:02-0	920200		 	 ''`	-	-100	
CS-18659-FG1		View Country Club	bunker sand pile	Soil-Like	Stockpile	Field Sample	9/29/2004	PLM-VE	l a	ND	. 1	ND	
•		378 Cabinet View Rd - Cabinet						_		1		\neg	
CS-18660-FG1	CS-18659	View Country Club	bunker sand pile	Soil-Like	Stockpile	Field Duplicate	9/29/2004	PLM-VE	Α	ND		ND	
	1	378 Cabinet View Rd - Cabinet	Hole #1 tee box & practice		e .					П			
CS-16681-FG1	ļ	View Country Club	green	Soil-Like	Surface soil	Field Sample	9/29/2004	PLM-VE	B1	TR		ND	
		378 Cabinet View Rd - Cabinet							l .	_ 			
CS-18663-FG1		View Country Club	Hole #3 women's tee	Soil-Like	Surface soil	Field Sample	9/30/2004	PLM-VE	Α	ND	,	ND	
CS-18681-FG1	1	376 Cabinet View Rd - Cabinet View Country Club	Hole #1 Tee	Soil-Like	Surface soil	Field Sample	12/10/2004	DI MANE	81	TR	· • [NO	
C3-180014-G1		378 Cabinet View Rd - Cabinet	1 100 #1 100	SUPLIKE	Surace sur	Field Sample	12102004	PLM-VE		 ''` 		. 170	
CS-18682-FG1			Fairway #1	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE	l a	ND		ND	
	-	378 Cabinet View Rd - Cabinet	<u> </u>		1			 			1	-	
CS-18683-FG1	L	View Country Club	Fairway#1	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE	A	ND	. 1	ND	
<u></u>		378 Cabinet View Rd - Cabinet										\neg	
CS-18684-FG1		View Country Club	Fairway#1	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE	Α	ND		ND	
		378 Cabinet View Rd - Cabinet	 	.			l			1			
CS-18685-FG1		View Country Club	Fairway #1	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE _	A	ND		ND	
CC 10606 FC1	1	376 Cabinet View Rd - Cabinet	TEE #2	Soil-Like	Sudana nait	Field Sample	1240000	0.445	1 .		, 1	إين	
CS-18686-FG1	 	View Country Club 378 Cabinet View Rd - Cabinet		SOH-LIKE	Surface soil	rieio sampie	12/10/2004	PLM-VE	A	ND		ND	
CS-18687-FG1	Į.	View Country Club	Fairway #2	Soil-Like	Surface soil	Field Sample	12/10/2004	DI MANE	A	ND		ND	
00:10001-1-01	1	378 Cabinet View Rd - Cabinet		JUIT-LINE	- Suringice soil	Licio Sainble	1210/2004	L. FIM-AE	 ^-	1,00	┈┦	-170	
CS-18688-FG1	1		Fairway #2	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE	I A	ND	, l	ND	
	 	378 Cabinet View Rd - Cabinet				, <u>Jon., p.u.</u>	· · · · · · · · · · · · · · · · · · ·	† 		╫╩╢	$\overline{}$	 †	
CS-18689-FG1	t		Fairway #2	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE	A	ND	,	ND	

Table 1 Results of Soil Samples Collected During Investigations at CVCC

			Location Description			!	Sample	PLN						
Sample ID	Parent ID	Property Group (Location)	(Sub Location)	Media Type	Matrix	Category	Date	Method	LA Bin	LA (%)	C (%)			
		378 Cabinet View Rd - Cabinet	TEE #21- #1 -			51116	40/40/0004				Lug			
CS-18690-FG1			TEE #3 ladies	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE	_ <u>^</u>	ND	ND			
00 40004 504	ì '	378 Cabinet View Rd - Cabinet	TEE #3 mens	Callelle	Surface soil	Field Sample	12/10/2004	DI MANGE		ND	ND			
CS-18691-FG1_	 	View Country Club 378 Cabinet View Rd - Cabinet	TEC #3 mens	Soil-Like	Surface soil	rieio Sample	12/10/2004	PLIM-VE	 ^-	IND	 			
CS-18692-FG1	•		Fairway #3	Soil-Like	Surface soil	Field Sample	12/10/2004	DI MANE	A	ND	ND			
C3-10032-FG1	 	378 Cabinet View Rd - Cabinet	1 31113) 43	OON-LIKE	Carrace Soil	i veid dampia	1210/2004			 	 ````			
CS-18693-FG1	1	View Country Club	TE #4	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE	A	ND	ND			
		378 Cabinet View Rd - Cabinet					12 10/2001				†**			
CS-18694-FG1	1	View Country Club	Fairway #4	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE) A	ND	l NDÌ			
		378 Cabinet View Rd - Cabinet												
CS-18695-FG1	<u></u>	View Country Club	Fairway #4	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE	Α	ND	ND			
		378 Cabinet View Rd - Cabinet						!			T			
CS-18696-FG1 _		View Country Club	#4 fairway	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE	A	ND	NO			
		378 Cabinet View Rd - Cabinet						•						
CS-18697-FG1		View Country Club	Tee #5	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE	B1	TR	ND			
	l	378 Cabinet View Rd - Cabinet								1				
CS-18698-FG1_		View Country Club	#5 tee	Soil-Like	Surface soil	Field Sample	12/10/2004	PLM-VE	<u> </u>	ND	ND			
	1000	378 Cabinet View Rd - Cabinet	<u> </u>	4		l <u></u>			l,		1			
<u> CS-16699-FG1</u> _	ļ	View Country Club	Tee #5	SoiHLike	Surface soil	Field Sample	12/13/2004	PLM-VE	B1	TR	ND			
		378 Cabinet View Rd - Cabinet			A	l <u>-</u>			Ι.		1,5			
CS-18700-FG1	1	View Country Club	#5 fairway	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	A	ND	ND			
00 10701 501		378 Cabinet View Rd - Cabinet	C #6	Sail Libra	Cuelona nail	Sield Cemele	13(13)0004	la	1	ND	ND			
CS-18701-FG1_	{	View Country Club 378 Cabinet View Rd - Cabinet	Fairwy #5	Soil-Like	Surface soil	Field Sample	12/13/2004	PLIVI-VE	 ^-	(NO)	1401			
CC 19702 EC1		View Country Club	#5 fairway	Soil-Like	Surface soit	Field Sample	12/13/2004	DI MAYE	Α	ND	ND			
CS-18702-FG1	 	378 Cabinet View Rd - Cabinet	#3 saliway	SOIPEIRE	0011402 3011	r reid daniple	12/13/2004	L CIAL A C	 	 	+:			
CS-18703-FG1		View Country Club	#5 fairway	Soil-Like	Surface soil	Field Sample	12/13/2004	PI MLVE	A	ND	ND			
00 10/00/10/1		378 Cabinet View Rd - Cabinet				THE STATE OF THE S	12.10.200			1	 			
CS-18704-FG1	i	View Country Club	#6 Tee	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	B1	TR	ND			
	1.	378 Cabinet View Rd - Cabinet		Tr. 10 194				, .			1-1			
CS-18705-FG1		View Country Club	Tee #6	Soil-Like	Surface soil.	Field Sample	12/13/2004	PLM-VE	81	TR	ND			
		376 Cabinet View Rd - Cabinet								1	1 .			
CS-18706-FG1	1	View Country Club	Tee #6	Soll-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	B1	TR	ND			
		378 Cabinet View Rd - Cabinet						<u> </u>	1		T^{-1}			
CS-18707-FG1	<u> </u>	View Country Club	Fairway#6	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	A	ND	ND			
		378 Cabinet View Rd - Cabinet			l <u>.</u>			<u></u>	1 .					
CS-18708-FG1	ļ	View Country Club	#6 fairway	Soil-Like	Surface soil _	Field Sample	12/13/2004	IPLM-VE	<u> </u>	ND	ND			
		378 Cabinet View Rd - Cabinet	l]	ت تمیم ا		40445-555		 .	[]				
CS-18709-FG1	 	View Country Club	#6 fairway	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	A	ND	ND			
00 10710 504	1	378 Cabinet View Rd - Cabinet	H7 T00	Collina	Sudan soit	Field Sameta	12(12)2004	DI MAYE	} ,	ND	ND			
CS-18710-FG1	+	View Country Club 378 Cabinet View Rd - Cabinet	#7 Tee	Soil-Like	Surface soil	Field Sample	12/13/2004	I-TW-AE	 ^ _	1,40	+**-			
C\$-18711-FG1	1	View Country Club	Tee #7	Soil-Like	Surface soil	Field Sample	12/13/2004	PI MAYE	l a	ND	ND			
	 	378 Cabinet View Rd - Cabinet	100 #/	OWILLING	Junace sult	riciu sample	1213/2004	L CIM-AE	 ^- -	 ''' 	+"" †			
CS-18712-FG1]	View Country Club	#7 fairway	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	Α	ND	ND			
IOI IE I GI	$\overline{}$	378 Cabinet View Rd - Cabinet					1.5.13.2007	 /-	 	 	+			
CS-18713-FG1	1	View Country Club	#8 Tee	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	A	DI	ND			
	1	378 Cabinet View Rd - Cabinet							 	 	 			
CS-16714-FG1		View Country Club	Tee #8	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	B1	TR	ND			
	1	378 Cabinet View Rd - Cabinet	<u> </u>				1	Ī	T					
CS-18715-FG1	ì	View Country Club	#8 fairway	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	l a	ND	ND			

Table 1 Results of Soil Samples Collected During Investigations at CVCC

			Location Description		••••		Sample	PLM							
Sample ID	Parent ID	D Property Group (Location)	(Sub Location)	Media Type	Matrix	Category	Date	Method	LA Bin	LA (%)	C (%)				
-		378 Cabinel View Rd - Cabinet				<u> </u>				 	† 				
CS-18716-FG1		View Country Club	Fairway #8	Soil-Like	Surface soil_	Field Sample	12/13/2004	PLM-VE	Α	ND	ND				
		378 Cabinet View Rd - Cabinet							Ī.,	1	1				
CS-18717-FG1		View Country Club	#8 fairway	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	Α .	ND	ND				
	,	378 Cabinet View Rd - Cabinet	·			1	1	1		1					
CS-18718-FG1	3.7	View Country Club	Tee #9	Soil-Like	Surface soil_	Field Sample	12/13/2004	PLM-VE	B2	< 1	ND				
		378 Cabinet View Rd - Cabinet	. :								7 7				
CS-18719-FG1		View Country Club	#9 Tee	Soll-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	82	< 1	ND				
		378 Cabinet View Rd - Cabinet													
CS-18720-FG1		View Country Club	#9 drop area	Soit-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	A	ND	ND				
		378 Cabinet View Rd - Cabinet					, and the second				T T "				
CS-20002-FG1	l .	View Country Club	#9 fairway	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	A	ND	(ND				
_		378 Cabinet View Rd - Cabinet													
CS-20003-FG1		View Country Club	#9 fairway	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	A	ND	ND				
		378 Cabinet View Rd - Cabinet	1				· · ·			 	<u> </u>				
CS-20004-FG1		View Country Club	#9 fairway	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	Α	ND	ND				
		378 Cabinet View Rd - Cabinet						T			1"1				
CS-20005-FG1	1	View Country Club	#9 fairway	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	i a	ND	ND				
		378 Cabinet View Rd - Cabinet									1 1				
CS-20006-FG1	1	View Country Club	#1 ladies tee	Soil-Like	Surface soil	Field Sample	12/13/2004	PLM-VE	A	ND	ND				

Notes:

Samples with LA Detected

PLM - polarized light microscopy

VE- visual estimation

LA- Libby amphibole

C- Chrysotile

FG1- fine ground fraction

TR- Trace

ND- Non-detect

Table 2. Summary of Soil Samples Collected in September 20004 that Contain LA.

Sample Index ID	Hole #	Location	Depth (inches bgs)	LA (%)	Comments on Visible Vermiculite
CS-18621		Green	0-12	TR	Vermiculite was observed in the center and eastern subsamples
CS-18623	9	Men's tee	0-8	TR	Visible tailings materials 4-8"bgs in subsamples
CS-18624		Women's tee	0-8	TR	No visible vermiculite
CS-18625	1	Men's tee	0-8	ŤR	No visible vermiculite
CS-18627		Green	0-12	TR	No visible vermiculite
CS-18630		Tee	0-8	TR	No visible vermiculite
CS-18631	2	Green	0-12	TR	No visible vermiculite
CS-18632		Green	12-24	TR	No visible vermiculite
CS-18635	3	Green	0-12	TR	No visible vermiculite
CS-18638	4	Green	0-12	TR	No visible vermiculite
CS-18640	_	Men's tee	0-8	TR	No visible vermiculite
CS-18642	5	Women's tee	0-8	TR	No visible vermiculite
CS-18643		Green	0-12	TR	No visible vermiculite
CS-18645		Men's long tee	0-8	TR	No visible vermiculite
CS-18646*	6	Men's long tee	0-8	TR	No visible vermiculite
CS-18648		Women's tee	0-8	TR	No visible vermiculite
CS-18649	6	Green	0-12	TR	No visible vermiculite
CS-18652	7	Women's tee	0-8	TR	Few vermiculite flakes visible in 1 subsample
CS-18653		Green	0-12	TR	Vermiculite visible 4-8"bgs in 3
CS-18654		Green	12-24	TR	No visible vermiculite
CS-18656	8	Men's tee	0-8	TR	No visible vermiculite
CS-18657		Green	0-12	TR	No visible vermiculite
CS-18658	_	Green	12-24	TR	No visible vermiculite
CS-18661	1	Tee and practice	0-8	TR	No visible vermiculite

^{*}Duplicate sample of CS-18645; bgs – below ground surface; TR – trace (<.0.2%)



Table 4 Results of Dust Samples Collected During Investigations at CVCC

					_										AHERA / A	STM 5755					•••	·· <u>-</u>				
]					Libby An	phiboles (LA	<u>. </u>	<u> </u>	Ch	rysotile (C)			Other A	mphiboles (O	A }		T	otal Asbe	stos	
San	mple ID	Property Group (Location)	Sample Group	Location Description (Sub Location) Media Type Matrix Sample Type Category Categ		\$>5u	Asb load (S/mm²)	Asb conc (Dust * \$/cm²)	\$<5u	s>\$u	Asb load (S/mm2)	Asb cone (Oust # S/cm²)	Ashestos Type Identified	S<5u	S>5u	Asb load (S/mm2)	Asb conc (Dust « S/cm²)									
cs	-18662	1260 Cabinet Heights Rd	Pumphouse	Ground floor	INE	Horizontal surface & high traffic area	Field Sample	300	9/30/2004	0	0	< 258.74	< 332	0	0	< 258 74	< 332	٥	' 0	< 258 74	< 332		0	0	< 260.00	< 330

Moles

LA- Libby Amphibole

C- Chrysotile

OA- Other Amphiboles

S/mm²- structures per millimeter squared

S/cm⁴- structures per centimeti

cm*- centimeter squared

<- less than

Section 4 References

CDM. 2003. Final Sampling and Analysis Plan, Remedial Investigation, Libby Asbestos Site, Operable Unit 4. May.

______. 2004a. Sampling and Analysis Plan Addendum for the Cabinet View Country Club. July.

______. 2004b. Close Support Facility, Soil Preparation Plan (Revision No. 1), Libby, Montana Asbestos Project, Sample Processing. March.

SRC. 2003. Analysis of Asbestos Fibers in Soil by Polarized Light Microscopy. SRC-LIBBY-03 (Rev. 0). March 3, 2003.

Section 3 **Quality Assurance/Quality Control**

CDM has established a formal quality assurance program to ensure consistently high quality project deliverables under its Response Action Contract with EPA. For work conducted by CDM in Libby, quality assurance/quality control (QA/QC) measures include the collection of quality control (QC) samples (such as soil duplicate samples and equipment blanks), implementation of a laboratory quality assurance program, review of project reports by a CDM-approved quality assurance staff member, and an auditing component to assess the effectiveness of the quality assurance program. The following sections describe deviations from the SAP Addendum and the implications of those deviations on project or data quality objectives.

3.1 Deviations from the Sampling and Analysis Plan Addendum

All requirements detailed in the SAP Addendum were met without exceptions.

3.2 Achievement of Data Quality Objectives

The data quality objectives of this investigation were met.

3.3 Data Validation and Reporting

None of the analytical data contained in this report was further validated beyond that performed by the laboratory as part of their QA/QC program. Therefore, it is assumed that the raw data are useable for their intended purpose, which is to determine the extent of LA asbestos contamination at the CVCC.



Appendix A Verbal Interview Documentation

BD- 004343

LIBBY ASBESTOS PROJECT "Contaminant Screening Study Secondary Structure Information Field Form (Secondary IFF)

Field Lagbook No.: 100386	Page No.: 17 Site Visit Date: _	9/30/04
Address: 1260 Cabinet Hei	ahts Rd Structure Descri	ption: <u>Dumphouse</u>
Occupant CVCC 5)	one Number: 406.293 - 2707
Owner (if different than occupant):	~ · · - / /	one Number
Business Name: CVCC	•	
Sampilng Team: <u>Tommy Co</u>	OK I Terry Crowell	
Field Form Check Completed by (10	0% of forms):	
Screening Field Check Completed by	y (2% of forms):	
Data Item	Value	Nates
STRUCTURE ATTRIBUTES		
Property Description	Residential Industrial Commercial	purphouse is laused by
Surrounding Land Use	Residential Industrial Commercial	
	School Mining	
	Other:	
		<u>-</u>
Year of Construction	pre-1950s (Unknown)	
Square Footage	740	
Construction Material	Wood frame Masonry/Stone	•
•	other cinderblock	
Number of Floors Above Ground	① 2 3 Other	
Number of Rooms Per Floor Above	1: 2 2 TZ 3:	
Ground	Other:	_
Basement	Yes (No .	
Heating Source	Wood/Coal (Electric) Propane/Gas	
	N appointer.	
Heat Platribution	Forced air (Radiant)	
•	NA) phapther:	
Was the building remodeled?	Yes (Ng)	

GSS Secondary Structure IFF (continued)

ORIGINAL

אם מסא

Address: _	1260	cabinet	Heights	Rd

BD# BD-001343

Data Item	. Value	Notas	
CONTAMINANT SCREENING STUD	Y ASSESSMENT		
Occupant Information	C	J Varbat Interview Complete:	
is there any knowledge of former miners, close relatives of miners, or any highly exposed persons living or visiting the property?	Yes No Unknawn	If unknown, why? — BISINESS	
is the resident, past or present, diagnosed with an aspestos-related disease?	Yes No Unknown	If unknown, why? —BVSINESS	
Indear Information	e □ Indoor	Visual inspection Complete:	
Oces the interior have vermiculite attic insulation?	Unknown	If unknown, why? REMANTUCI YZ	
Did the interior ever have vermiculite attic insulation? NA applies if attic currently has VCI	Ves No Unknown NA	if unknown, why?	
Are there vermiculite additives in any of the building materials?	Yes No	If unknown, why? Typs and location of building material;	
Location of Indoor vermiculite (circle all that apply)	Attid Walls Crawl Space None Visual in Living Space: Basement, Ground Floor, Attached Garage Other:	If In living space, provide specific location: -ATTIC IN NESECTION - WALS AROUND BRIGHARD (REPLANT SIFT) SECTION -GIF VISIBLE IN BRIGHARD ESECTED	
ADDITIONAL INFORMATION (Note any partial access or sample collection issues) Appears There is approx 1/2" of UCI IN ATTIC.			
121 VC REMNANTS 121 101	NO VCI		
	NSULATED W/		
	RICK WOOL		
	N		
2			

REVISED

BD- 004345

Soil samples collected (Date;	
-------------------------------	-------------

LIBBY ASBESTOS PROJECT Contaminant Screening Study

Primary Structure and Property Assessment Information Field Form (Primary IFF)

-de (0) = 14h	Phone Number: 406, 293-2707 Phone Number: Notes
Cabinet View Rd P Jo 10/7/04 P Tommy Cook forms): Value	Phone Number: 406 ' 293-2707
Jo 10/7/04 Formy Cook forms): Value	Phone Number:
forms):	Notes
forms):	Notes
of forms):	Notes
Value	Notes
	Notes
	Notes
Residential Industrial Commercia	
Residential Industrial Commercial	•
Residential Industrial Commercial	
. — School Mining	
Other:	
1970s Unknown	
4,000	main floor t basement
Wood frame Masonry/Stone	
Other.	
1: 3 2: 3:	• •
Other.	
Wood/Coal Electric (Fropane/Gas)	
Other:	
orced air Radiant	
)ther	
	Residential Industrial Commercial School Mining Other: 1970s Unknown 4000 Wood frame Masonry/Stone Other: 1: 3 Other: Yes No Wood/Coal Electric Propane/Gas Other:

CSS Primary Structure IFF (continued)

Address:	•	80# <u>004342</u>
Data Item	Value	Notes
OCCUPANT INFORMATION		
Was the residence/building remodeled?	Yes No	
	if yes,]
	When (years): <2 2-5 >5	
	Where: Attic Living Areas Garage	
	Basement	
		GATOR
Has resident/business purchased any Lipby vermiculite materials from W.R. Grace in the past?	Yes (No Pay lent	Song vermilier Brokett in As Fil Fir Tes/Green
Has the property at this location been used for a for-profit enterprise of distributing, treating, storing, or disposing of Libby vermiculite?	Yes No	
Contaminant screening study as	SESSMENT	
Occupant information	Ó	Verbal Interview Complete:
is there any knowledge of former miners, close relatives of miners, or any highly exposed persons living or visiting the property?	Unknown 9/30/04	If unknown, why?
Is the resident, past of present, diagnosed with an aspestos-related disease?	Yes (Np)	if unknown, why?
Indeer Information	Indoor \	Visual Inspection Complete:
Does the interior have vermiculity attic insulation?	Yes Na Unknown	if unknown, why?
Old the Interior ever have vermiculite affic insulation?	Yes No Unknown NA	If unknown, why?
NA applies if attic currently has VCI		
Are there vermiculite additives in any of the building materials?	Yes No Unknown	If unknown, why? Type and location of building material:
		<u></u>

Address:____

BD# 004342

CSS Primary Structure IFP (continued)

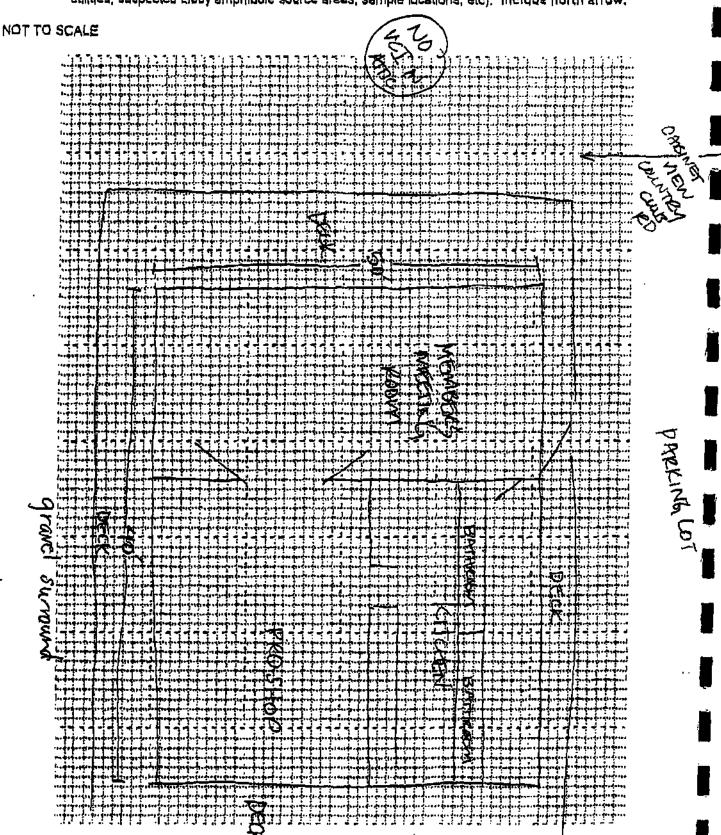
Location of Indoor vermiculitie (circle all Value Value Notes Attlc Walls Crawl Space None) Visual in Living Space Basement, Ground Floor, Second Floor, Attached Garage Other. Outdoor Information Outdoor Visual inspection Complete: Location of outdoor vermiculitie (circle all Driveway Flowerbed Garden Yard Former Flowerbed Former Garden Stockpile None Other House, I Collabor. Overall Assessment Order House, I Collabor. Order House House Order House, I Test No		<u> </u>			
Usual in Living Space: Basement, Ground Floor, Attached Garage Other: Outdoor Information Outdoor Visual Inspection Complete: Location of outdoor varimiculite (circle all Oriveway Flowerbed Garden Yard That apply) Former Flowerbed Former Garden Stockpile None Other House, I, I (Lappin) Overall Assessment Complete: Overall Assessment Overall Assessment Oriveway Flowerbed Garden Yard AND FSDS FR ADD L NFO Other House, Indoor, Outdoor Inspection) Overall Assessment Original Stockpile None Other House, Indoor, Outdoor Inspection) Overall Assessment Original Stockpile None Other House, Indoor, Outdoor Inspection) Overall Assessment Original Stockpile None Other House, Indoor, Outdoor Inspection) Overall Assessment Original Stockpile None Outside Inside Outsi	Data Item	Value	Notes		
Outdoor Information Outdoor Visual Inspection Complete:	Location of Indger vermiculite (circle all	Visual in Living Space: Basement, Ground Floor, Second Floor, Attached Garage	If in living space, provide specific location:		
That apply) Former Flowerhed Former Garden AND FSDS FAX ADD L NFO Stockpile None Other House, 1, 1 (Bulght) Overall Assessment Complete: Are primary source materials present at Yes No Where are primary source materials Inside Outside NA applies if no primary source materials are located at the property. Additional Information (Note any partial access or sample collection issues) AND FSDS FAX ADDITIONAL INFORMATION (Note any partial access or sample collection issues) AND FSDS FAX ADDITIONAL INFORMATION (Note any partial access or sample collection issues) AND FSDS FAX ADDITIONAL INFORMATION (Note any partial access or sample collection issues) AND FSDS FAX ADDITIONAL INFORMATION (Note any partial access or sample collection issues) AND FSDS FAX ADDITIONAL INFORMATION (Note any partial access or sample collection issues) AND FSDS FAX ADDITIONAL INFORMATION (Note any partial access or sample collection issues) AND FSDS FAX ADDITIONAL INFORMATION (Note any partial access or sample collection issues) AND FSDS FAX ADDITIONAL INFORMATION (Note any partial access or sample collection issues)	Outrigor Information		/isuai inspection Complete;		
Are primary source materials present at Yes No — Timp House HAS UCI the property? Where are primary source materials Inside Outside NA applies if no primary source materials are located at the property. Both NA ADDITIONAL INFORMATION (Note any partial access or sample collection issues) ONLY AT THE SUPPOSE WAS A FEW FLACE GLORDED ON THE SUPPOSE		Former Flowerhed Former Garden Stockpile None	- SAL LAGBOOK AND PSDS FAR ADDIL INFO		
the property? Where are primary source materials Inside Outside MA applies if no primary source materials located? Both NA ADDITIONAL INFORMATION (Note any partial access or sample collection issues) ONLY AT THE SUPPOLE					
ADDITIONAL INFORMATION (Note any partial access or sample collection issues) WHENCULTE CESTEUR ONLY AT THESE WAS A FEW FLACES (SCRUED) BY THE SCREECE	Are primary source materials present at the property?	Yes No	, , ,		
ONLY AT THOSE WAS A FEW FLAKES OBSERVED ON THE SLAFFICE	Where are primary source materials tocated?		NA applies if no primary source materials are located at the property.		
	ONLY AT DEATH, THERE I	WAS A FEW FLAKES OBSERVED =			

CSS Primary Structure IFF (continued)

378 Cabinet View Country Club Rd

BO# 004342

FIELD DIAGRAM OF PROPERTY
Identify important features (i.e. drainage, tress, gardens, structures, flowerbeds, utility poles, known underground utilities, suspected Libby amphibole source areas, sample locations, etc). Include north arrow.



Appendix B Field Log Notes and Field Sample Data Sheets

June 2004 Sampling Event

cation Cabinet View Country Club pole 6-4-04 place / Client Libery Askerlas US EPA Region & Cabinet View Country Club 1902: Arrive @ golf course to condust oil sampling on the hole # 3 toe-box. All work IAW CSS SAP Revision I , 2003. B. Shows (author) and T. Sesti onsite. is observed in the soils of the er of lower techon at Loke #3. The material in question was abusously micaceous native sand, produced from slacial deposits sil semples on FSDS-000164 are as follows: SP-124957 Hole #3 roperty (Pa) CS-18,556 SP-124958 wer fee-box 3 Tec. Box A

Sheet No.: S- MADIRA

Field Logbook No:	BBY FIELD SAMPLE D	Sampling Country Owned Tenant: Caling Owne	Other ()
Data Item	Sample 1	Sample 2	Sample 3
Index !D	CS- 18555	CS- 18556	
Location ID	SP- 124957	SP- 124958	
Sample Group	Property (P.)	Property (Pa)	
Location Description (circle) ~	Back yard Front yard Side yard Driveway Other #3 hee box (upper	Back yard Front yard Side yard Driveway Other #3 harbox (lower)	Back yard Front yard Side yard Driveway Other
Category (circle) <	FS) FD of Field Blank (let or equipment)	F5 FD ofField Blank (lot or equipment)	FS FD of Field Blank (let on Equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Other	Surface Soil Other
Type (circle)	Grab Comp # subsamples 5	Grab Comp # subsamples _S	Grab V Comp. #9ubsamples
Sample Time	0922	0930 1	, \
Top Depth (in.)	0.	0	
Bottom Depth (in.)	8	8 .	/ .
Field Comments Note if vermiculite is visible in sampled area	Na L.V. observed in sumple	6D	BD
Entered (LFO)	Volpe: EnteredValidated	Volpe: Entered Validated	Vojpe: Entered Validated

September 2004 Sampling Event

"Outdoorwiting products for outdoor witing people."

ALL-WEATHER WRITING PAPER

TRANSII

All-Weather Notebook No. 301

Libby Asbestos Project CSS Investigation CHOINET VIEW COUNTRY

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CDM

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ALL-WEATHER WRITING PAPER

CDM Federal Programs Corp 60 Port Boulevard Libby, MT 59923 Suite 201 Name ___

Libby Asbestas Project CDM Contractor Logbook

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Every Page

Initial and Date every page, Sign and Date (ast entry of the day, Une out once, initial and date all changes, NO blank lines Dalfy Entries

Author, Date & Time, Weather, Activities, Persons on learn Level of PPE, Title of Governing Document

CRRAP≖Comprehensive Residential Removal Action Plan RAWP≠Response Action Work Plan SS=Scott Supemaugh

V=Tone Vanderweel X=Dean Kozlowski SO=Shawn Ollveira EC-Torang Cock DS-Dave Spieiman 3P=Greg Parana C=Terry Crowell (B=Karen Gerry

CONTENTS

REFERENCE

DATE

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2 CHENET VIEW CONTRY CLUK (COL) "TEM	THE SAMPLIES BY WAS LESSEN IS TO DELINAMINE SAMPLES BY THE CABANET VIEW CONTRY CLUB, HOPEN. SHOWIG AND VIEW WOODENING SAMPLES	न र्षे हैं है है।	AINVALE TO THE	AND MAINED DIC FOR BUILDING INSPENS

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Ý	vier.	Season Mapping Come	S. WILL DE CENTRALINE SAME	125000 S	S-00522 How 11 600	1 S-00052.3 Hour 3 Cab	S-octoszy Harry Co	7 S-6005 25 New S-77825 1 S-6005 25 New S-77825	Mall
(機能がある)	1 Mesle 4/12/16	CON 60000 Col	SOLVE	1040 10 CS-18636	96 0849 CS-18632	1085 US-184 1085 US-18	1258 CS	1420 CS-1864 1450 CS-1864 1545 CS-1864 1545 CS-1864	The constraint
「「中央の大学」と、「一個の情報を言う」と	CVCC - 3/2	PAND QUELAS THE SANDONE EVENT BANG CLUBHUSE FOR HOUSE #9.	2-12" Visious Verl 2-502 S-006518 25-18622 House	SW COLLEGE 18623 FROM HOLE OF THE TEXT SEE THE TEXT TEXT TEXT TO SEE THE TEXT TEXT TEXT TEXT TO SEE THE TEXT TEXT TEXT TEXT TEXT TEXT TEX	DESCEROTO	4 05800 T	ENANCE DAYS WARE CONTROL SOIL US, USAND SITE FOR DAY NO FRENCE		
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うなら	1320-BACK FROM LUNCH COMME SWILLE	67500 S	1516 CS-18657 S.000536 Hur R Con	2	-1-3	1558 65 1862 3 18487 40 Oct 1831		14.5° of 5.10								
6 CVCC 9/28/by	Least July Sandwidt : 9128/21	CAM DEFICE TO PREPARE FER TONANS	WIL BOOK!	W CF 75 F COME	PRESS MONORAL COLOR D. D. S. S.	THE FOLLOWING SAMPLES ARE COLLECTED	LIME INDERTO FS 05 DESCRIBERA	0832, 65-1845 S-000526 HOLE WENS TOP LAN	0.855 C. 19147.	8 CS-18648 5 000577	5. L.	1037 CS-18651 S :001521 HOW 7 MANS LOTE	12 1 2	1207 CS-18651 S.000529 HOLE 7 CORN	Lurett	

grap! Culch	THE BOW MAN SHOW AND CUT CHAN	SAFE STEN THE NOT CONTINUED IN	WARELL to CALLET SUN STONE (P. C. P. CO.)	PANNING LA DELACE IT IS	Thereof rist cap care on 12	16 18.84 VOSTWANTE.	TOR ABOWN CUT COMEST TO INSPEC	Signedius Alers (10, Mynns, vruny	BAS FTE, No VERNILLUITE	Ossemen.	Jan Lundt	BYLL AT CUCC C	WHILE TOO MORENT CES INSORTHER	-Correcto IFF For tank that ARIAN	80-654342 No VCI OSCINED - 22	SEE IFF FOR NETDYS ON UKIBIE	remains on the care.	15th coads cucc and there to com	STATE TO DELINGUEST STROKEZ.	- 1615 - Court (5.1861) - SULA SANIA	Barismen RUM	-1645 DeunGust Stroks 10 1. Sport	シャラのはます」をあるかのます	Compair Ab Frame Enjoyes.
りまる	0720-(34 AND (POWIGH, APRING OF COMPANIE	3 3	SAMPLE HORNWARTS FREE THE CITYLE BETTER	Working 15 ~ 45°F -> BE CLOOK JSWMY	ME-MEMBER LEVER D.	Caroline Townson 15 45 Per O No. 2	- 450 - LOAD UP CAR AND HOND TO CUCC.	-0815- MEET REND AND CHUNG. DELUS THOT	TODAY NE MILK RE INSOFCAME BUILDING	AND CLUBATASE SHAME FINASH SKINDUNGE	TOWN. WANT		2888	CACIO CONTESS	. Assiened B	2	Manual Manus	DIS SAMUES ARE COLLEGIED IN THE	INDOM ROMS OF THE AND HARE.		ORY CAUST CS-18462 DUST SAMOLE	ِ اکھا۔	3	

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For Flaid Team Complation

(Provide Initials)

Sheet No.: S- 000513

Field Lagback No: <u>j</u> Address: <u>378 (a)</u>	00.386 Page N	ار. اندان	OATA SHEET (FSDS) I 4 Sampling I Ed Owner/Tenant: <u>Cabinet</u>	
Business Name:	tial School Com		a) Mining Roadway Names: Tury (row	
Data Item	Sample 1		Sample 2	Sample 3
index ID	F3- 19951	72 12-14	:S- 18622 a ₽	CS- 18623
Location ID	5p- 125861	aler He	SP-125861	5P-125862
Sample Group	property		property	property
Location Description (circle)	Back yard Front yard Side yard Oriveway Other Hole #9 Gyce	<u>n</u>	Back yard Front yard Side yard Oriveway Other Tole#9 aren	Back yard Front yard Side yard Driveway Other) Holc #9 mens
Category (circle)	FD of Fleid Blank (lot or equipm	ient)	FS FD of Field Blank (lot or equipment)	FS FU of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise nated)	Other O-1211	-	Surface Sail 12-14" Other Surpsy face sai	
Type (circle)	Grab Comp # subsamples		Grab Comp # subsamples 5	Grab Comp. # subsamples _ 5
Sample Time	1124	.	1124	1340
Top Depth (in.)	0		12	0
Bottom Depth (in.)	12		24	8
Field Comments - Note if vermiculite is visible in sampled area	visible in upon 3" " = 1 = 1	√ .	none visible in any subsamples	visible tailings makrial 4-0" depth - see map
Entered (LFO)	Volpe: * Entered Validated		Volpe: Entered Validated	Volpe: Entered Validated
d =visi	ible in subsample	on	mayo	• • • • • • • • • • • • • • • • • • •

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Completed by

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NO.976 P. 14/43

Sheet No.: S- __000578

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL Page No: _____S Field Logbook No: 100386 Sampling Date: 9/27/04 Address: 378 Cabinet View Country Club Rd Owner/Tenant: Cabinet View Country Crub (CVCC Business Name: ___cvcc_

(Commercial) Mining Land Use: Residential Other (School Roadway

Sampling Team: MACTEC COM Other ____ Names: Tom my Cook Terry Crowell

Data Item	Sample 1		Sample 2	· 	Sample 3	.1.,,
index iQ	CS- 18624	12.	CS- 18625	R	CS- 18626	E
Location ID	SP-125863	7 27 04	SP-125864	9/27/00	59-125865	7/27/
Sample Group	property		property		property	
Location Description (circle)	Back yard Front yard Side yard Driveway Other Hole #9	nen's	Back yard Front yard Side yard Driveway Other Hole # Sho	s Cetro	Back yard Front yard Side yard Ortveway Other Hole # 1	ens Frec
Category (circle)	Field Blank (lot or equip	ined)	FD of Fleid Blank (lot or equipm	nent)	FS FD of Field Blank (lot or equipm	nent)
Matrix Type (Surface eqli unless other wise noted)	Surface Soil Other	_	Surface Soil	*	Surface Soil Other	-
Type (circle)	Greb Comp # subsamples	5	Grab Comp. # subsamples	<u>. </u>	Grab Comp. # subsamples	
Sample Time	1440		1520		1550 ·	<u></u>
Top Depth (in.)	0 872 9/27/04	!	0		0	
Bottom Depth (in.)	8		9		8	
Field Comments Note if vermiculite is visible in sampled area	none visible in any subsample see map	*5.	see man		See map	,
Entered (LFO) : No	Volpa: Entered Validated _		Volpe: Entered Validated		Volpe: Entered Validated	
75						

Field Logbook No:	100386 Page N	No:	ATA SHEET (FSDS	i) Fi Ig Di	
		<u>un 16</u>	d Owner/Tenant: CVC	<u>د_</u>	
Business Name; <u>CV</u>				–	
Land Use: Resident Sampling Team: MAC	tial School Comi CTEC CDM Other	merci		•	Other ()
Data Item	Sample 1		Sample 2		Sample 3
Index ID	CS- 18627	P	CS- 18628	て	CS- 18629
Location ID	5p-125866	3104	SP-125866	र्जित	
Sample Group	property		property		Back yard
Location Description (circle)	Back yard Front yard Side yard Driveway Other Hole #1 arce	Ž.	Back yard Front yard Side yard Driveway Other	2	Back yard Front yard Side yard Oriveway Other
Category (circle)	FD of Field Blank (lot or equipm	ent)	FS of Field Blank (lot or equipme	nt)	FS FD of Field Blank (lot or squipment)
Matrix Type (Surface soll unless other wise noted)	Surface Soil	_	Surface Soil Other) Subsurface S	so,	Surface Soil &
Type (circle)	Grab Comp # subsamples _5		Grab Comp. # subsamples5		Grab Comp. # subsamples
Sample Time	1650		· 1650·		15
Top Depth (in.)	0		[2		
Bottom Depth (In.)	12		24		
Field Comments Note if vermiculite is visible in sampled area	none visible in any subsamples	•	BD		BD
Entered (LFO)	Volpe: Entered Validated		Volpe: Entered Validated		Volpe: Entered Validated

FEB. 22. 2005 12.4	24F11 CD11			NJ.976 (1.16/45
· 2			٠ 🛶	Sheet No.: 5
Field Logbook No:	100386 Page No	o:	ATA SHEET (FSDS) Sampling Owner/Tenant: CVC	Date: <u>9/28/04</u>
Business Name:C _and Use: Resident	VCC	ierci	al Mining Roadwa	-
Data Item	Sample 1		Sample 2	Sample 3
Index D	CS- 18630	2-		CS- 18632
Location ID	SP-125867	486	5P-125868	SP-125868
Sample Group	property		. property	property
Location Description (circle)	Back yard Front yard Side yard Orlyeway Other Fig. 14-16	<u>e</u> e	Back yard Front yard Side yard Onlyeway Other Indie # 2 green	Back yard Front yard Side yard Driveway Other Hole#2 areen
Category (circle)	FS) FD of Fleid Blank (lot or equipme	ent)	FS FD ofField Blank (lot or equipmen	FS . FD of
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	_	Surface Soil.	Surface Soil Other Subsurface
Type (circle)	Grab Comp # subsamples 5		Grab Comp # subsamples <u>5</u>	Grab Comp. # subsamples
Sample Time	0820	_,	0849	0849
Top Depth (in.)	0			17
Bottom Depth (in.)	8		12	24
Field Comments Note if vermiculite is visible in sampled area	no visible vermiculing any substantes	He.	BD	BD
Entered (LFO) VD	Volpe: Entered Validated		Volpe: EnteredValidated	Volpe: Entered Validated

Entered (LFO)

LIE	BBY FIELD SAMPLE D	ATA SHEET (FSDS) F	OR SOIL
Field Logbook No:	100386 Page No:	Sampling D	ate: 9/2//04
ddress; <u>3 78 Ca</u>	abnet View Country Ciu	ಯೇಲಿwner/Tenant:C L	cl
Business Name:	CVCC		
Land Use; Resident	ial School Commerci	a) Mining Roadway	Other ()
Sampling Team: MAG	CTEC CDM Other	_ Names: Terry Croud	1/ Tommy Cook
Data Item	Sample 1	Sample 2	Sample 3
	Cantiple 1	- Campio 1	
Index ID	CS- 18633 R		
Location ID	SY-125869	SP -125869	۱۳ مهم ۱۳۵۶ و ۱۳۵۶ ۱۳۵۱ و ۱۳۵۶
Sample Group	property	phoperty	property
Location Description (circle)	Back yard Front yard Side yard Orlveway Other) Hole # H green	Back yard Front yard Side yard Driveway Other fole #11 Green	Back yard Front yard Side yard Driveway Other) Hole # 3 green
Category (circle)	FS FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)	FD of Field Blank (lot or equipment)
Matrix Typa (Surface acil unless other wise noted)	Surface Soll	Surface Soil Other Subsurface Soil	Surface Soil) Other
Typs (circle)	Grab Comp)# subsamples 5	Grab Comp)# subsamples	Grab Comp # subsamples
Sample Time	0949	0949	1035
Top Depth (in.)	0 .	12	0
Bottom Depth (in.)	12	24	12
Field Comments Note if vermiculite is visible in sampled area	no visible verniallite in any subsaruples	BD	60
Entered (LFQ)	Volps: Entered Validated	Voipe: EnteredValidated	Volpa: Entered Validated

For Field Team Completion (Provide Initials)

Completed by

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Sheet No.: S- 0000020

LI	BBY FIELD SAMPL	ED	ATA SHEET (FSD:	S) F	OR SOIL	_
	100386 Page No					
1ddress: 378 Co	white view (outny C	416	Kd Owner/Tenant:	<u> </u>	vcc	
Business Name:						
Land Use: Residen				•		
Sampling Team: MA	CTEC CDM Other		_ Names:Terry C	nm	11/ Tonmy look	_
Data Item	Sample 1	ſ	Sample 2	·	Sample 3	
Index ID	CS- 18636	T -	CS- 18637	7	CS- 18638	2
Location ID	59-125870	1,56	SP-125871	ilairlo	1 SP-125872	29/6
Sample Group	property		property		property	
Location Description (circle)	Back yard Front yard Side yard Oriveway Other Hole #3 green		Back yard Front yard Side yard Driveway Other Hole #4 + ed	50X	Back yard Front yard Side yard Driveway Other Hole #4 green	
Category (circle)	FD ofFleid Blank (lot or equipme	int)	FS) FU of Field Blank (lot or equipme	ent)	Field Blank (lot or equipmen	ıt)
Matrix Type (Surface soil unless other wise noted)	Surface Soll Other subswifted soil		Surface Soil Ottier	-	Surface Soil Other	
Type (circle)	Grab Comp # subsamples 5		Grab Comp. # subsamples		Grab Comp. # subsamples <u>S</u>	_
Sample Time	1035		1225		1258	
Top Depth (in.)	12		o		0	
Bottom Depth (in.)	24		8		12	
Field Comments Note if vermiculite is visible in sampled area	no visible vernicul in any subscumple:	ate S	BD		ED	
Entered (LFO)	Volpe: Entered Validated	_	Volpe: Entered Validated		Voipe; Entered Validated	

For Field Team Completion QC by Completed by iProvide (nittals)

Sheet No : S. 000522

LIBBY FIELD SAMPLE	DATA	SHEET	(FSDS)	FOR SOIL
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Field Logbook No: <u>10133</u>		Sampling Date:	1/28/04
Address: 378 Cabinet un	ewlaining" (Jub Rd	Owner/Tenant: CVCC	
Business Name;	evec !		-
Land Use: Residential	School Commercia	Mining Roadway Other	()
Sampling Team: MACTEC	CDM Other	Names: Tem Croncil / Too	nmyloux

Data item	Sample 1		Sample 2		Sample 3	
Index ID	CS- 18639	e	CS- 18640	,	CS- 18641	t
Location ID	Sp-125872	बेश्वि	5P-125873	PRION	SP-125874	a bale
Sample Group	proposity		property		property	
Location Description (circle)	Back yard . Front yard Side yard Daveway Other Hole #4 Q re	en	Back yard Front yard Side yard Driveway Other) Hole #5 Trees	.	Back yard Front yard Side yard Orivaway Other Hale #5 st	amen Loat-t
Category (circle)	FS FD ofFD ofFIND OFFIND OFFIND OF EQUIPMENT OF EQUIPMEN	nent)	FS FD ofFleid Blank (lot or equipment	7	S) TO of Field Blank (lot or equipa	nent)
Matrix Type (Surface soil unless other wise noted)	Other Subsurface	<u>ક</u> ળે1	Surface Soll Other	(4)	Surface Soi) Other	-
Type (circle)	Grab Somo # subsamples	اما	Grab Comp # subsamples 5		omp.# subsamples _5	<u>. </u>
Sample Time	1258	•	1353		1420	
Top Pepth (in.)	12		0		0	
Bottom Depth (in.)	24		8		8	
Field Comments Note if vermiculite is visible in sampled area	NO 504342 -	-15	BD	E	JD	
Entered (LFO)	Volpe: Entered Validated		Voipe: EnteredValidated		olpa: ntered Validated	

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Sheet No.: S- <u>- 00</u>05등등

IDDV EIE) DIGAMDI E DATA GUEET (EGDG) EGD GOU

Data Item	Sample 1		Sample 2		Sample 3
index ID	CS- 18642	92 9 23 09	CS- 18643 ₄	2	CS- 18644
Location ID	5P-125475	1	SP-125876	\ -	SP-125876
Sample Group	property	•	property		property
Location Description (circle)	Back yard Front yard Side yard Oriveway Other Hold #5 long	ne de	Back yard Front yard Side yard Driveway Othertole #5 arco	e n	Back yard Front yard Side yard Driveway Other Holc #Saren
Category (circle)	FD ofFleid Blank (lot or equipm	(nent)	FS ofField Blank (lot or equipme	nt)	FS FD of
Matrix Type (Surface sqll unless other wise noted)	Surface Soil Other	-	Surface Soil		Surface Soil Other Subsurface soil
Type (circle)	Grab Comp. # subsamples		Grab Comp.# subsamples 5		Grab Comp # subsamples 5
Sample Time	1450		1545		1545
Top Depth (in.)	O		0		12
Bottom Depth (in.)	8		12-	_	24.
Field Comments Note if vermiculite is visible in sampled area	no visible vern ichlite in any subsamples	1-	BD-		BD>
Enlered (LFO)	Volpe: Entered Validated		Volpe: Entered Validated		Voipe: Entered Validated
U					

Sheet No.: S- 000523 LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL Sampling Date: 9/29/04 Field Logbook No: 100386 Page No: iddress: 378 Cabret View Country (lub Edowner Tenant: CVCC Susiness Name: Cucc Commercia) Land Use: Residential Mining School Roadway Other (Sampling Team: MACTEC (CDM) Other Tommy Cook/ Teny Crowell Names: Data Item Sample 1 Sample 2 Sample 3 Index ID वी अपि CS- 18647 CS- 18646 CS- 18645 Location ID SP-125878 SP-125877 50-125877 Sample Group propert property propert Location Description Back yard Back yard Back yard Front yard Front yard Front yard (circle) Side yard Side yerd Side yard MENS (WHI Driveway Driveway D<u>riveway</u> (Other) Other Hole 46 (Other) Hole 7 TO9/19/04 FS) FS) Category (circle) Bdf (15-18645 FD of FD of Field Blank (lot or equipment) Field Blank (lot or equipment) Field Blank (lot or equipment) Surface Soil Surface Soll (Surface Soll) Matrix Type Other Other. (Surface soil unless other Other _ wise noted) Type (circle) Grab Comp # subsamples _ _ S (Comp.)# subsamples _ Comp. # subsamples __S_ 0855 Sample Time 0832 0846 Top Depth (in.) 0 Bottom Depth (in.) BD-BD-Field Comments Note if vermiculite is visible in sampled area Valpe: Volpe: Volpa: Entered (LFQ) Entered Validated Entered . Entered Validated Validated

Sheet No.: S- 000527

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL
eld Logbook No: 100386 Page No: Sampling Date: 9/29/04
dress: 378 Cabinet Country Club Rd Owner/Tenant: CVCC
siness Name: View CVCC
nd Use: Residential School Commercial Mining Roadway Other ()
impling Team: MACTEC COM Other Names: Terry crowdly Tommy Cook

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 18648	M CS- 18649 10	CS- 18650
Location ID	51-125879	SP-125880	SP-125880
Sample Group	property	property	property
Location Description (circle)	Back yard Front yard Side yard Driveway Other Hole to the	Back yard Front yard Side yard Driveway Other) Hole#6 green	Back yard Front yard Side yard Driveway Other Hole #6 green
Category (circle)	FS FD ofFD ofFleid Blank (lot or equipmen	FD of	Fig. Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil)	Surface Soil Other	Surface Soil Suprement sol
Type (circle)	Grab Comp. # subsamples _5	Grab Comp. # subsamples _5	Grab Como # subsamples5
Sample Time	. 0918	1005	1005
Top Pepth (in.)	0	0	12
Bottom Depth (in.)	8	12	24
Field Comments Note if vermiculite is visible in sampled area	No No INCLUMENT .	BD	BD
Entered (LFO)	Volpe: Entered Validated	Volpa: Entered Validated	Volpe: Entered Validated
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NO.97E	۲	.23/4:
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Sheet No.: S- 00055: LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL Single Copper No.: 1003888 - Base No.: Sampling Date: 0/30/5/							
LIDIO FORMORY MO.	net View Country Cli	10:	Sampling L	Pate: 9/29/04			
Land Use: Reside	Land Use: Residential School Commercial Mining Roadway Other () Sampling Team: MACTEC CDM Other Names; Thomas (adc/Tarry Crowol)						
Data Item	Sample 1		Sample 2	Sample 3			
index ID	CS- 18651	المرابع	CS- 18652	CS- 18653			
Location ID	SP-125881	,	SP-125882	SP-125883			
Sample Group	property		property	property			
Location Description (circle)	Front yard	long	Back yard Front yard Side yard Other Tide 7 Womens	Back yard Front yard Side yard Drivaway Other Hole # 7 to Green			
Category (circle)	FD of Field Blank (lot or equipm	ent)	FD ofFleid Blank (lot or equipment)	FD of Field Blank (lot or equipment)			
Matrix Type (Surface soil unless other wise noted)	Surface Soil	-	Surface Soil Other	Surface Soil Other			
Type (circle)	Grab Comp: # subsamples _5		Grab 74/2/2/01/5 Comp # subsamples	Grab Comp.)# subsamples5_			
Sample Time	1037		1117	1202			
Top Depth (in.)	.0		<u> </u>	0			
Bottom Depth (in.)	8		8	12			
Field Comments Note if vermiculite is visible in sampled area	вр. <u>204342</u>		trace (few flakes) visible in 1 sub- sample: estlected additional subsample	visible in 4-8" layer in 3 subsamples			
Entered (LFO)	Vojpe: Entered Validated		Volpe: EnteredValidated	Volpe: Entered Validated			
full for Fleid Team Completion							
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. •			Sheet No.: S-
LIBBY !	FIELD SAMPLE DA	TA SHEET (FSDS)	FOR SOIL
Field Logbook No:			Date: 9/29/04
\ddress: 378 Cabinet Viw	N Country Club Rd	Owner/Tenant:	CVCC
Business Name:	CVCC		
Land Use: Residential	School Commercial		
Sampling Team: MACTEC	2DM) Other	Names: Tommy	Cook/Terry Crowell

Data Item	Sample 1	Sample 2	Sample 3
Index IQ	CS- 18654	CS- 18655	CS- 18656
Location ID	SP-125883	Sp.125884	SP-125885
Sample Group	property	property	property
Location Description (circle)	Rack yard Front yard Side yard Driveway Other Hole # 7 green	Back yard Front yard Side yard Driveway Womens	Back yard Front yard Side yard Driveway Other Hole #8 #EDOX
Category (circle)	Field Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other Subsurface soil	Surface Soil Cother	Surface Sail Other
Type (circle)	Greb Comp)# subsamples5	Grab Comp. # subsamples _5	Grab Comp. # subsamples 5
Sample Time	1202	1357	1425
Top Depth (in.)	_12.	0	0
Bottom Depth (In.)	24	8	8
Field Comments Note if vermiculite Is visible in sampled area	no visible vermentite no any subsamples	BD	BD
Entered (LFO)	Volpe: Entered Validated	Valpe: EnteredVelidated	Volps: Entered Validated

Entered (LFQ)

Entered .

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Sheet No.: S- 000555 LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL Sampling Date: 9/29/04 Field Logbook No: _ L00386 Page No: _____ /7, Address: 378 Cabine + View Country Club Pd Owner/Tenant: CVCC Business Name: ___ CVCC Land Use: Residential School (Commercial) Mining Roadway Other (Sampling Team: MACTEC (CDM) Other __ Names: Tommy Cook/ Terry (rowe Data Item Sample 1 Sample 2 Sample 3 Index ID CS- 18657 CS- 18659 CS- 18658 Location ID SP-125886 SP-125886 SP-125887 Sample Group property o roperty property Location Description Back yard Back yard Back yard Front yard Front yard Front yard (circle) Side yard Side yard Side yard Driveway bunker Driveway Sthep Hole#9 arren Driveway Other) sand pile Other. (FS) S Category (circle) FU of FD of FD of Field Blank (lot or equipment) Field Blank (lot or equipment) Field Blank (jot or aquipment) Śudace Soil` Surface Soil Matrix Type Surface Soil Other) subswatace sail stockpile Other-Sther_ (Surface soil unless other wise nated) Gcab) Type (c(rcle) Grab Comp # subsamples __5 gompl # subsamples _5 Comp. # subsamples Sample Time م) *ا*15 1516 1530 w Catalou 12 Top Depth (in.) Ø NA Bottom Depth (in.) 12 24 BD-004342 Field Comments Note if vermiculity is visible in sampled stodepile used for area no visible vermi culture Arlling all bunkers Seen in any subsamples Volce: Volps: Volps:

For Field Team Completion Completed by TC OC by TCC
(Provide (ordals)

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Validated

Entered _

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•.		•- <u></u>	Sheet No.: S- 000568				
LI	BBY FIELD SAMPLE D	ATA SHEET (FSDS) F	OR SOIL				
Field Logbook No: 100386 Page No: 13 Sampling Date: 9/29/04							
dress: 378 Cal	what viow Country Club	Pd Owner/Tenant: CVC	<u> </u>				
Business Name:			6				
Land Use: Residen	tial School Commerci	a Mining Roadway	Other (
Sampling Team: MA	CTEC CDM Other	Names: Tommy Coc	of Tury Cravell				
Data Item	Sample 1	Sample 2	Sample 3				
Index ID	CS-18660 V.	CS-18461	CS- 18663 *				
Location ID	SP-125887	SP-125888	59-125889				
Sample Group	property	property	property				
Location Description (circle)	Back yard Front yard Side yard Driveway Other bunker sand Ale	Back yard Front yard Side yard October Hole # techons Other prochice area	Back yard Front yard Side yard Driveway Other) Hole #3: Worners				
'ategory (circle)	FS C5-18659 Field Blank (lot or equipment)	FO of Field Blank (lot or equipment)	FD ofFD ofField Blank (lot or equipment)				
Matrix Type (Surface spil unless other (wise noted)	Surface Soil Other Strockelle	Surface Soil	Surface Soil				
Type (circle)	Comp. # subsamples	Grab Comp.,# subsamples 5.	Grab Comp.# subsamples				
Sample Time	1530	1542					
Top Depth (in.)	NA	0	0.				
Bottom Depth (In.)	NA	- 8	8-				
Field Comments	BD	BD	89				
Note if vermiculite is visible in sampled area	Jichelle Work		* SAMPLE DATE ON THIS SAMPLE IS 9/30/04				
	Volpe; Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated				
entered (LFO)	Volpe;	•	Volpe:				

Sheet No.: S- 000570

LII.	BBY FIELD SAMPLE D	DATA SHEET (FSDS) F	OR SOIL
Field Logback No:	100384 Page No: _	Sampling [Date: <u>9/30/84</u>
'dress: <u>NA</u>	-,	Owner/Tenant:	A
Business Name; Land Use: Residen Sampling Team: MA	tial School Commerc	ial Mining Roadway Names: Terry Cro	Other (NA) well / Tommy (not)
Data Item	Sample 1	Sample 2	Sample 3
index ID	CS-18664		
Location ID	AD- 000001	<u>.</u>	
Sample Group	BLANK		
Location Description (circle)	Back yard Front yard Side yard Driveway Other NA	Back yard Front yard Side yard	Back yard Pront yard Side yard Driveway Other
rategory (circle)	FS . FD_of Field Blank (lot of equipment)	FS FD of	FS FD of Fleid Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Ca Sard	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples
Sample Time	1615		4
Tap Depth (in.)	NA		
Bottom Depth (in.)	NA		
Field Comments Note if vermiculite is visible in sampled area	BD- <u>K</u> *	BO	80:
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated
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Field Logbook No; .ddress: <u>1260 (a.him</u> Business Name: <u>CV</u>	100386 Page No: et Itrighto Rd` CC	TA SHEET (FSDS) FO Sampling Dat Owner/Tenant:CVC	e: <u>9/20/04</u> C Cleases pumphane
Land Use: Residentia Sampling Team: MAC	I School Commercial	Mining Roadway Names: Tommy Cook	Other () 1 Tany Gowell
Data İtem	Cassette 1	Cassette 2	Cassette 3
Index ID	CS- 18662 1104		
Location (D	BD-004343		
Sample Group (circle)	Garage, House, Shed, Pump House Other	Garage, House, Shed, Pump House Other	Gerage, House, Shed, Pump House Other
Location Description (circle) (Cetalled description point within the location)	Basement, Ground Floor Second Level Other	Basement, Ground Floor, Second Level Other	Basement Ground Floor, Second Level Other
Matrix Type (circle)	Horizontal Surfaces (High Traffic Areas Other	Horizontal Surfaces High Traffic Areas Other	High Traffic Areas Other
Dategory (sircle)	FS FB-(fleid blank) LB-(lot blank)	FS FB-(field-track) LB-light Spank)	RS FB-(field blank) LB-(lot blank)
Sample Area (cm²) (circle)	100 200 200 NA	100 200 100 1	100 200 380 NA
Filter Diameter (circle)	25mm 37mm.	25mm 37mm	25mm 37mm
Pore Size (circle)	(EM45) PCM- 0.8	TEM- ,45 PCM- LA	TEM45 PCM- 0.8
Flow Meter Type (circle)	Rotometer Ory-Cal NA	Rotometer Ory-Gal NA	Rotometer Dry-Cal NA
Pump ID No.	691405	X-	
)=9=4=10/04 = 2380		
Start Time r	0949 0952 0956	 	<u> </u>
Start Flow (L/min)	2.02		
Stop Time	0951 0954 0958		
Stop Flow (L/min)	2.02	 	<u> </u>
Pump Fault? (circle)	(No) Yes	No Yes	No Yes
Field Comments	100 cm² Top of Europeic Part on Ne wall	100 cm²	100 cm² .
Cassatta Lot Number:	100 cm2 N ROOM. FLOCK BY N W WALL	100 cm²	190 cm²
23802	100 cm² S ROOM ON PLOOPE BY NE WALL	100 cm²	100 cm²
	Archive Blank (circle): Yes No	Archive Blank (circle): Yes No	Archive Stafik (circle): Yes No
Entered (LFO) 35	Volpe: Entered Validated	Entered Validated	Entered Validated
J	ield Team Completion	or m. To or m. Tr	

Sheet No.: D- 000297

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR DUST Field Logbook No: 100386 Page No: 17 Sampling Date: 9/30/04 ddress: Owner/Tenant: CUCC NA 9/2009 CVCC NA YORK Business Name: Land Use: Residential (Commercial) Other (School Mining Roadway Names: Tommy (ook / Temy (row! Sampling Team: MACTEC (CDM) Other Data Item Cassette 3 Cassette 1 Cassette 2 Index 10 CS- 18665 BD-004343 Location ID BEANK 76 10/104 Garage, House, Shed, Garage, House, Shed, Garage, House, Shed, Sample Group (circle) Pump House Pump House Pumo House (Subgroup of the property) BLANK Other) Other __ Other_ Location Description Basement, Ground Floor, Basement, Ground Floor, Basement, Ground Floor. Second Lavel DIM WA Second Level Second Level (circle) Other____ Other (Detailed description point within Horizontal Surfaces Horizontal Surfaces Horizontal Surfaces High Traffic Areas High Traffic Areas High Traffic Areas Matrix Type (circle) Other____ (Cthar_ Other_ FS FB-(field blank) LB-(lot blank) FS FB-(field blank) LB-(lot blank) FS (FB-(Joid blank) LB-(jot blank) Category (circle) Sample Area (cm²) 300 100 300 100 100 200 NA 200 NA 200 300 NA (circle) 25mm Filter Diameter (circle) 25mm 37mm 25mm 37mm 37mm EM- .45 TEM- 45 Pore Size (circle) PCM- 0.8 PCM-0.8 TEM- .45 **PCM-0.8** (NĀ) Rotometer Rotometer Dry-Cal NA Flow Meter Type (circle) Dry-Cal NA Rotometer Dry-Cal NA Pump ID No. Flow Meter ID No. Start Time Start Flow (Umin) Stop Time Stop Flow (L/min) (AN) Fump Fault? (circle) Nο Yes No Yes No Yes Field Comments 100 cm² 100 cm³ 100 cm2 100 cm³ 100 cm² 100 cm2 Cassette Lot Number: 23802 100 cm² 100 cm² 100 cm² Archive Blank (circle): Yes Archive Blank (circle): Yes No Archive Blank (circle): Yes No Entered (LFO) __#¬ Entered ____ Validated ___ Volps: Entered ___ Validated Entered _____ Validated ____

December 2004 Sampling Event

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- Aufter, date & One, wealthst activities, persons on team, level of PPE, like of governing document.

CRRAP-Congretensive Residential Removal Action Plan RAWP=Response Action Work Plan

Small shovel, 4x6 and 9x12 poly sample bags, 5 gallon pumps, high flow air pumps, Rotometer, 20" box fan, 1 buckets; radio, cell phone, camera,-SKC low flow air hp leaf blower, air pump stands, tygon tubing, O. Bum Residential Removal Oversight Equipment PCM cassettes, GFIC splitters, soil probes.

Air Clearance Procedures:

be pre and post calibrated. During sampling a 20" box blow down the sample area. Air sampling mumps will Prior to sampling a 1-hp leaf blower will be used to fan will be placed in the center of the sample area facing the ceiling-running on high.

GIRA-General Information for Response Action

ALL-WEATHER WRITING PAPER

for oatdoor writing people" "Outdoor writing products. . .



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Merno Books

Copter Paper / All-Weather Pens

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be pre and post calibrated. During sampling a 20" box Small shovel, 4x6 and 9x12 poly sample bags, 5 gallon blow down the sample area. Air sampling pumps will pumps, high flow air pumps, Rotemeter, 20" box fan, nickets; radio, cell phone, camera, SKC low flow air to leaf blower, air pump stands, tygon tubing, 0.8um Prior to sampling a 1-ftp leaf blower will be used to In will be placed in the center of the sample area GIRA-General Information for Response Action Residential Removal Oversight Equipment PCM cassettes, GFIC splitters, soil probes. facing the ceiling-running on high. CHRAP-Comprehensive Angelendal Re Air Clearance Procedures: RAWPeResponse Action Work Plan

FEB.22.2005 12:38	PM CDM	NO.976 P.
SP-126453 (#5.0545) SP-126453 (#5.0545) SP-126455 (#5.0545) SP-126455 (#5.0545)	SP- 126456	
374 CAPINGT UPED RE CABINGT VIEW C. C. L. SS- 18693 S CS- 18694 S CS- 18695 S	CS- 18697 CS- 18699 CS- 18699 CS- 18700 T ₁ CS- 18701	CS- 18704 CS- 18704 CS- 18705 CS- 18707 CS- 18707
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B 3'18 CLAINSTAY WELD NO. O. O. M. W.	SP- 126441 SP- 126442 SP- 126443 SP- 126446 SP- 126446	O O O O O O
B SOLESHING WANGER TON IA B OTHER TON IA B OTHER TON IA COU DOCS ON GP 5 WORK	CS- 18681 CS- 18683 CS- 18684 CS- 18686 CS- 18686	CS- 18688 CS- 18689 CS- 18690 CS- 18691 CS- 18691

378 CAMINET VITTORO LO # 100404 14-19-04 11 Soli SAMPLING RO. LO # 100404 VOLPETERNIA	CS- 20004 SP- 126483	ነ ፈ		AVELUAN COM STANDER CONTINUENT OF STANDER	MICLAN HACEAUBECK ASSISTING. ARE LEVEL	D. TITLE OF COUDOC'S ON PC. 48 EQUIPUSED	DOTS HER TO CONTINUE SOIL SAMPLING	1310- M.K. IN OPPICE TO DOUBLE BLE	1 5646 5016 54 410 1055 1 10 10 10 10 10 10 10 10 10 10 10 10 1	1400 05 145 10 05 10 10 10 10 10 10 10 10	FINNSH RE-CLANCIAL & CHANGIUS IR#	OU GPS HAWDYELD TO ST'S HORUING			
10 3 3 CL BINGT VIEW C. C. L. B. \$ 10040 4. CODAL TONCHA.	CS- 18708 SP- 126468	CS-18709 SP-126469 (FSDS#S-	CS- 18710 SP- 126470/00000	CS- 18711 SP- 126471	CS-18712 SP-126472 (1505#5	-7- 10713 SP- 126473 000507	CS- 18714 SP- 126474 \ C-TV	CS- 18715 SP- 126475 (F\$DS#S-	CS- 18716 SP- 126476 / UOUS 09	CS- 18717 SP- 126477	CS- 18718 SP- 126478 (TSDS#S-	CS- 18719 SP- 126479 /0005 /0	CS- 18720 SP- 126480)	CS- 20002 SP- 126481 (FSDS#S-	4CS- 20003 SP- 126482 10/0/01

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LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL						
Field Logbook No: 100404 Page No: 8 Sampling Date: 12/10/04 Idress: 378 CABINET VIEW RD Owner enant: CABINET VIEW COUNTRY CL						
Business Name:	BINET VIEW COUNT	RY CUB	or view wanter (
Land Lies Residen			Other /			
Samoling Team: MA	tial School Commerc CTEC CDM Other	Names: 1/41/0PR(1)	EEL/HOUENBECO			
			2,5			
Data Item	Sample 1	Sample 2	Sample 3 /			
Index ID	CS- 18681	-CS- 18682	CS- 18683			
Location (D	SP- 126441	SP- 126442	SP- 126443			
Sample Group	PROPERTY	PROPERTY	PROPERTY			
Location Description (circle)	Back yard Front yard Side yard Offveway TEE	Back yard Front yard Side yard Other FAIRWAY	Back yard Front yard Side yard Oriveway Other FAIRWAS			
Category (circle)	FD ofFleid Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FS of Field Blank (lot or equipment)			
Majrix Type (Surface soil unless other wise nated)	Surface Soil Other	Other	Other			
Type (circle) (Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples			
Sample Time	1330	1333	1340			
Top Depth (in.)	0	0	0			
Bottom Depth (in.)		/				
Field Comments Note if vermiculite is visible in sampled	80-004342 No Ly seen	80.004342	BD- 004342 NG LV SEEN			
=0) <u>1</u> b	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated			

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No. 976 P. 29/45 Sheet No.: S- 000406

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL , ,						
Field Logbook No:	00404 Page No:	Sampling D	ate: 12/10/04			
Address: 318 Cd	BINET VIEW KD	Owner/Tenant: (ABINE)	VIEW COUNTRY CULE			
Business Name: (A)	BINET VIEW COUNTRY	CUB				
Land Use: Resident		Mining Roadway	Other ()			
Sampling Team: MAG	CTEC COM Other	Names: VALVERWEE	L/HBLLENBECK			
	·		/			
Data Item	Sample 1 /	Sample 2	Sample 3			
Index ID	CS- 18684	CS- 18685	CS- 18686			
Location ID	SP- 126444	SP- 126445	SP- 126446			
Sample Group	PROPERTY	PROPERTY	PROPERTY			
Location Description (circle)	Back yard Front yard Side yard Driveway Other FAIRWAY	Back yerd Front yard Side yerd Driveway Other FAIR (2A)	Back yard Front yard Side yard Oriveway Other THE			
Category (circle)	FD of Fleid Blank (lot or equipment)	FS FD of	FD of Field Blank (lot or equipment)			
Matrix Type (Surface soil unless other wise noted)	Other	Sunace Soil	Surface Soll			
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grap Comp. # subsamples			
Sample Time	1343	1347	1351			
Top Depth (in.)	0	0	0			
Bottom Depth (in.)	! / /	1	1			
Field Comments Note if vermiculite is visible in sampled	8D-004342	BD- <u>004342</u>	8D-004342			
aleg	NO LY Seen	No Ly seen	NO LV Seen			
1/2	Volge:	Volpe:	Volpe:			
Entered (LFO)	Entered Validated	Entered Validated	Entered Validated			

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ddress: <u>578 CA</u> iusiness Name: CA	BINET VIEW COW	Owned enant: CABINZ	T VEW COUNTRY CO
·			Other (EL /HALLENBECK
Data (tem	Sample 1,	Sample 2	Sample 3
ndex (D	CS- 18687	C5- 18688	CS- 18689
ocation (D	SP- 126447	SP- 126448	SP- 126449
Sample Group	PROPERTY	PROPERTY	PROPERTY
ocation Description Circle)	Back yard Front yard Side yard Driveway AIRLEAN	Back yard Front yard Side yard Driveway FAIRWAY	Back yard Front yard Side yard Driveway Other FAIRWAY
Category (circle)	FD ofFleid Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FD of Field Blank (lot or equipment)
fatrix Type Surface spij uniess ogjer ise noted)	Surface Solt) Other	Other	Other
ypa (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples
ampie Time	1355	1400 -	1404
op Depth (in.)	0	0	<u> </u>
attom Depth (in.)	! /		
ield Comments lote if vermiculite is isible in sampled rea	80.004342 No LV Seen	80.004342 No LV Seen	NO LY Sean
ntered (LFO) 👭	Voipe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

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	Sheet No.:	s- <u>00045</u> 5
IBBY FIELD SAMPLE DA	TA SHEET (FSDS) FOR SOIL	_,

Lij	ANIAI	SIX GLIEFT (LODG) L	12/10/01/
Field Logbook No:	/// 707 Page No:	Sampling Do	ate: 10/0/07
ddress: 3/8 G	GRINATI VIEW RU	Owner/Tenant: G88/NE/	VIEW CEROIRY CLAS
	SINUET VIEW COUNTRY C	LUIS	
and Use: Resident			Other (
Sampling Team: MA	CTEC CDM) Other	Names: VANDERWEEL	1/HAUENBECK
Date Item	Sample 1	Sample 2	Sample 3
Data Item	Sallible I	Januare 2	Dellibie 2
Index ID	CS- 18690	- CS- 18691	CS- 18692
Location ID	SP- 126450	SP- 126451	SP- 126452
Sample Group	PROPERTY	PROPERTY	PROPERTY
Location Description pircle)	Rack yard #3 kdies Front yard #3 kdies Side yard Driveway TEE	Back yard Front yard #3 Mens Side yerd Driveway TEE	Back yard Front yard # 3 Side yard Oniveway FAIRWAD
C. 'gry (circle)	FD of	FS FD of	FS FD of Fleid Blank (lot or equipment)
Matrix Type (Surface and unless other wise noted)	Surface Soil Other	Surface SOID Other	Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grap Comp. # subsamples
Sample Time	MC3	1411	1416
Top Depth (in.)	. 0	0	<u> </u>
Bottom Depth (in.)	· /	1	
Field Comments Note if vermiculite is visible in sampled area	NO LV 50en	NO LV Seen	NO LY seen
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Sheet No., S-LIBBY FIELD SAMPLE DATA SHEET (FSDs) FOR SOIL Page No: _ autholilua narr Field Logbook No: OwnerPrenant; CABINET ddress: 2 COLLOT R Business Name: 🜽 Other (School Roadway Land Use: Residential Commercial Mining ANDERWEE Sampling Team: MACTEC CDM Other Names: Sample 3 Data Item Sample 1 Sample 2 Ol xebni CS- 18695 CS 18693 C5- 18694 Location iD SP- 126455 SP- 126453 SP- 126454 PROPER1 PROPERTY Sample Group PROPERTY Back yard Location Description Back yard Back yard Front yard Front yard Front yard (circle) 44 Side yard Side yard Side yard Other FAIRWAD #4 Drivaway Driveway . FAIRLUAY Other) Other F\$ FS **1**3 Category (circle) FD of FD of FD of Field Blank (lot or equipment) Field Blank (lot or equipment) Field Blank (lot or equipment) Surface Sol Surface Soil Matrix Type Surface Soil Other Other Other (Surface soil unless other (bajor, saw) Grab_ Grab) Grab Type (circle) Comp. # subsamples Comp. # subsamples Comp. # subsamples Sample Time 1831 1434 Top Depth (in.) Bottom Depth (In.) Field Comments Note if vermiculite is visible in sampled NO LY Seen NO LY Seen area Velpei Volpe: Voice:

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	٤	Sheet No.: S- 000502
		BBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL
Field	d Logbook No:	0404 Page No: 9 Sampling Date: 12/10/04
.dd	Iress: <u>348</u>	Cabinet View Rd Owner/Tenant: Cabinet View Country Club

Business Name: Cobinet View Country Club Roadway Other (Land Use: Residential School Commercial Mining Sampling Team: MACTEC COM Other ____ Names: Venderweel / Hellenbeck

Data item	Sample 1	Sample 2	Sample 3
Index ID	CS- 18696	CS- 18697	CS- 13698
Location ID	SP- 126456	SP- 126457	SP- 126458
Sample Group	Property	Property	Property
Location Description (circle)	Back yard #4 Feirvey Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other	Back yard 45 Tee Front yard Side yard Driveway Other
Category (circle)	FD ofFjeld Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FD of Field Blank (lot or equipment
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soli Other	Surface Soll Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples
Sample Time	439	1443	1448
Top Depth (in.)	, , O	. 0	0
Bottom Depth (in.)			1
Field Comments Note if vermiculite is visible in sampled area	80-004342 NO LY Seen	BD-004342 NO LV Seen	80-004342 NO LV Seen
Entered (LFO)	Volpe: . Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

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FEB. 22. 2005 12:32PM CDM NO.976 F. 34/05 Sheet No.: S- 000563LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL MOR Sampling Date: 12/10/04 11/15/01 Field Logbook No: -100404 Page No: ddress: 378 Cobinet View Rd Owner Tenant: Cobinet View Country Business Name: Cobinet View Country Club Land Use: Residential Commercial School Mining Roadway Other (Sampling Team: MACTEC COM Other Hellenbeel Names: Vande cwee Sample 3 Data Item Sample 2 Sample 1 Index ID 1CS-18699 CS- 18700S CS- 18701 Location ID 5P- 126459 SP- 126460 SP- 126461 Sample Group Proper Propert Propert Location Description Sack yard Back yard Back yard Front yard \$5 Fairway Front yard Front yard (circle) Side yard Side yard Side yard MOUNTAIN Driveway. <u>Driveway</u> D<u>rive</u>way Other) Tes Other Offen trainwe FS) Category (circle) FD of FD of FD of Field Blank (lot or equipment) Field Blank (lot or equipment) Field Blank (lot or equipment) Surface Soil Surface Soil Surface Soil Matrix Type Other_ Other Other (Surface soil unless other wise nated) Grab Grab) (Grab) Type (circle) Comp. # subsamples Comp. # subsamples Comp. # subsamples 1451 Sample Time 1455 Top Depth (in.) Battam Depth (in.) BD-004342 во-<u>00434</u>2 Field Comments Note if vermiculite is beigmas ni sidisiv NO LY Sem NO LY SEEM No LV Secon area

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000504 Sheet No.: S-LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL Каш Field Logbook No: 100404 Sampling Date: 12/10 Page No: Owner Tenant: Cobinet View C ddress: 378 Cabin Business Name: Cobined View Count School (Commercia Mining Roadway Other (Land Use: Residential Hallenbec Names: Van Sampling Team: MACTEC (CDM) Other derweel Sample 3 Sample 2 Data Item Sample 1 Index ID CS- 18704 CS- 18702 CS- 18703 Location ID SP- 126464 SP- 126463 SP- 126462 Sample Group Back yard Location Description Back yard Back yard Front yard & G Frontyard \$5 Fairway Front yard \$5 Foirway (circle) 2110104 Side yard Side yard Side yard ANIA INGINA ME THO LOA Driveway Driveway Driveway Other F Other) Other FS (FS) Category (circle) FD of FDat Field Blank (lot or equipment) Field Blank (lot or equipment) Field Blank (jot or equipment) Surface Sol Surface Soil Surface Soil Matrix Type Other . Other Other (Surface soil unless other wise noted) Grab) (Grab Grab Type (circle) Comp. # subsamples Comp. # subsamples Comp. # subsamples 0703 Sample Time Top Depth (in.) Bottom Depth (in.) Field Comments Note if vermiculite is visible in sampled אט ביו שנייו NO LY seen No iv seen area Volpe: Voipe: Vojpe: Entered Validated Entered _ Entered (LFO) Entered Validated Validated

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Field Logbook No: 1	00404 Page No: _		Date: +2/10/04 1/1/15/1
	binet View Rd		et View Country Club
	binet View Cou		
Land Use: Resident			Other (
Sampling Team: MA	CTEC COM Other	_ Names: Vender wee	Hellenbeck
	T	>	1,
Data Item	Sample 1	Sample 2	Sample 3
index ID	CS- 18705	CS- 18706************************************	CS- 18707 000
Location ID	SP- 126465	SP- 126466	SP- 126467
Sample Group	Property	Property	Droperty
Location Description (circle)	Back yard Front yard Side yard Oriveway Other	Back yard Front yard Side yard Oriveway Other	Back yard Front yard Side yard Driveway Other Heritage
Category (circle)	FS FO of Field Blank (lot or equipment)	FD ofFleid Blank (lot or equipment)	FD of Fleid Blank (lot or equipment)
Matrix Type (Surface soll unless other was noted)	Surface Soil Other	Surface Soll Other	Surface Sell Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples
Sample Time	0920	ロコスト	0934
Top Depth (In.)	. 0	O	0
Battam Depth (in.)	,		
Field Comments	8P-004342	BD-004342	BD-004342
Note if vermiculite is visible in sampled area	المن مرا حدد ال	No LY ween	NO LViern
Entered (LFO)	Volps: Entered Validated	Voipe: Entered Validated	Volpe: EnteredValidated
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LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL MIDIT				
Field Logbook No: 100404 Page No: 10 Sampling Date: 12/10/04/3/c				
\ddress: 378 (Cobinet View R	When Tenant: Cabic	net View Country cl	
	binet View Coun		,	
Land Use: Resident		Mining Roadway	Other()	
Sampling Team: MA		_ Names: Venderwe	el/Hallenbeck	
		•		
Data item	الرز Sample 1	· Sample 2	Sample 3	
Index ID	CS- 18708	CS- 18709	CS- 18710 10 30	
Location ID	SP- 126468	SP- 126469	SP- 126470	
Sample Group	Property	Property	Property	
Location Description (circle)	Back yard Front yard & Frivery Side yard Driveway Other	Back yard Front yard Side yard Deiveway Other	Back yard #7 Tec Front yard Side yard Driveway Other	
Category (circle)	FS FD ofField Blank (lot or equipment)	FD ofField Blank (lot or equipment)	FD of Field Blank (lot or equipment)	
Matrix Type (Surface soil unless either wise noted)	Surface Soil Other	Surface Soll Other	Surface Soil Other	
Type (circle)	Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples	
Sample Time	17933	0944	0744	
Top Depth (in.)	. 0	<u> </u>	0	
Bottom Depth (in.)				
Field Comments Note if vermiculite is ' visible in sampled area	180-004342 No LY SCRA	BD. 004342 No LV Scen	80-004342 No w wen	
Entered (LFO)	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated	

For Field Team Completion	Completed by	ac by,
(Provide (nilials)	Collibrated by	40%

P.36/49

Sheet No.: S- 000507 LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL MOH Sampling Date: 12/10/04 12/13/04 Fleid Logbook No: 100404 Page No: Owner Tenant: Cabinet View Country Club edress: 378 Cabinet View Rd Business Name: Cobinet View Country Club Lend Use: Residential School Commercia Other (Mining Roadway Hallenber Sampling Team: MACTEC CON Other ____ Names; Vander week Data Item Sample 1 Sample 2 Sample 3 Index (D CS- 18713 CS- 1871 CS- 18711 Location ID SP- 126472 SP- 126473 SP- 126471 Sample Group Prope ProDe Prope Back yard # 8 Location Description Back yard Back yard Front yard Front yard (circle) Side yard Feir wet Side yard Side yard <u>Driveway</u> **Driveway** O<u>rivev</u>ray (Other) Other) QtheD_ Œ ES) Category (circle) FD of FD of FD of Field Blank (lot or equipment) Field Blank (jot or equipment) Field Blank (lot or equipment) Surface Soil Surface Soll Surface Soil Matrix Type Other Other Other_ (Surface soil unless other wise noted) Grab Grab) Grab_ Type (circle) Comp. # subsamples Comp. # subsamples Comp. # subsamples Sample Time ೦ೡೱ Top Depth (in.) Bottom Depth (in.) 80-MA342 BD 004342 Field Comments Note if vermiculite is No LV Bean No Ly seen visible in sampled NO LY SOEN ares Volge: Volos: Volps: Entered_ **Defebilisy** Entered (LFO) Entered_ Validated Entered Validated.

		
For Field Team Completion	Completed by	OC PB
(Provide Initials)	Colliblered na	ac a

Sheet No.: S- ___000503

Field Logbook No: 🔟	20404 Page No: _	NATA SHEET (FSDS) F	OR SOIL NADH
\ddress: <u>378 C</u>	sbinet View Ro		et View Country C
Business Name: 🕰	binet View Cou	atry Club	
Land Use: Residen Sampling Team: MA		Mining Roadway Names: Vanderwe	Other (WHENDERK
Data Item	Sample 1 July	Sample 2	Sample 3
Index ID	CS- 18714	CS- 18715	CS- 18716
Location ID	SP- 126474	SP- 126475	SP- 126476
Sample Group	Property	Property	Property
Location Description (circle)	Back yard Front yard Side yard Driveway Other Tee # 8	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Oriveway
Category (olrcle)	FS FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)	FD ofField Blank (lot or equipment)
Matrix Type (Surface soil unless other wise nated)	Surface Soil Other	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples
Sample Time	1036	1030	10:34
Top Depth (in.)	0	0	0
Bottom Depth (in.)	\	١	
Field Comments Note if vermiculite is visible in sampled area	10-004342 NO LY SEMA	BD-004342 No in seen	80-004342 NC LY SCEN
Entered (LFO)	Volpa; Entered Validated	Volpa: Enterad Validated	Volpe: Entered Validated

For Field Team Completion	Completed by	oc by W
(Provide Initials)	<u> </u>	L

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Sheet No.: S-

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL WOA 10 Field Logbook No: 100404 Page No: _ Sampling Date: 12/10/04 liew Rd Independent of the land of the Owned enant: Cabin et View Country Business Name: Caloinet View Country Club Land Use: Residential School Commercial Roadway Other (Minina Sampling Team: MACTEC CON Other Names: Vanderweel Hellenber Sample 3 Data Item Sample 1 Sample 2 Index ID CS- 18719 CS- 18718) CS- 18717 Location ID SP- 126477 SP- 126478 SP- 126479 Sample Group Proper Back yard 1601 Location Description Back yard Front yard #8 Fairway Back yard Front yard Front yard (circle) Side yard Side yard Side yard Other Te Driveway_ **Driveway** OHO TE Order Tee FS) Category (circle) FD of FD of FU of Fleid Blank (lot or equipment) Field Blank (lot or equipment) Field Blank (lot or equipment) Surface Sel Surface Soil Surface Soil Matrix Type Other_ Other Other (Surface soil unless other wise nated) Grab\ Grab) Grab Type (circle) Comp. # subsamples Comp. # subsamples Comp. # subsamples 1053 Sample Time 10:39 1C47 Top Depth (in.) Bottom Depth (in.) BD-004342 BD- CY Fleid Comments Note if vermiculite is MOHIBUISICA NO LY DEEN visible in sampled ろいんり MC IA GORY ぴつ ディ area \/**¢**\$ Volpe: Volpe; Vojpe: Validated Entered Entered Validated Entered Validated Entered (LFO)

For Field Team Completion (Provide Initials)	Completed by	OC BY
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Sheet No.: S- 01105:1

	BBY FIELD SAMPLE D	ATA SHEET (FSDS) F	OR SOIL
Field Logbook No: 났	00404 Page No: _		ate: 12/10/04 13/17
ddress: 278 C		- 1 .1	ex View Country C
Business Name: 🕰	binet View Count	ory club	•
Land Use: Resideni		al Mining Roadway	Other ()
Sampling Team: MA	CTEC CDD Other	Names: Venderwe	el/Hellenbeck
Data item	Sample 1	Sample 2	Sample 3
Index ID	C5- 18720	CS- 20002	CS- 20003 100 1
Location ID	SP- 126480	SP- 126481	SP- 126482
Sample Group	Property	Property	Property
Location Description (circle)	Back yard to drop Front yard Crea Side yard Oriveway Other	Baok yard Hon Front yard Forty Side yard Driveway Other	Back yard Front yard Side yard Oriveway Other
Category (circle)	FS : FD of Field Blank (lot or equipment)	FS FD ofFleid Blank (lot or equipment)	FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # aubsamples
Sample Time	1059	1103	1103
Top Depth (in.)	0	0	0
Bottom Depth (in.)		\	
Field Comments Note if vermiculite is visible in sampled area	BP-COA342 No W Seen	80-004342 NO LY 5020	No Ly seen
Entered (LFO)	Valpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered

Name and Address of the Owner, where the Party of the Owner, where the Party of the Owner, where the Owner, which is the O	· · · · · · · · · · · · · · · · · · ·	
For Field Team Completion	į.	
Lot Light Leady combined of	Completed by	LOC by 1 =
(Provide (nitals)	antibleme of	ac by Vo
(SUDAIDE RINGIS)	<u> </u>	

NO.976 P.42/49

	BBY FIELD SAMPLE D	. 4	
Field Logbook No: _\			Date: 12/10/04 12/12/0
(vddress: 37%)			et View Country c
	binet View Cou		_ · ·
Land Use: Residen			9ther ()
sambiing reem: MW	CTEC COM Other	Names: Hallenbee	K/Venderweel
Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 20004	US- 20005	CS- 20006
Location ID	SP- 126483	SP- 126484	SP-'126485
Sample Group	Property	Property	Property
Location Description (circle)	Back yard # Fei wey Front yard Side yard Driveway Other	Back yard WCL Feirwey Front yard Side yard Driveway Other	Back yard He lodies Front yard Side yard Dryaway Other
Category (circle)	FD ofFleid Blank (lot or equipment)	FD ofField Blank (lot or equipment)	F5 FD of Field Blank (lot or equipment)
Matrix Type (Surface soli unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soll Other
Type (circle)	Grab Comp. # subsamples	Grab Comp. # subsamples	Grab Comp. # subsamples
Sample Time	1113	ilao	1335
Top Depth (In.)	. 0	Ö	0
Battom Depth (in.)	: \	1	1
Fleid Comments Note if vermiculite is visible in sampled	80-004342 No LV seen	60-004342	BD-004342
area	INO FA POSU	No LY SCEN	NO LY Seen
Entered (LFO) Jb	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion OC BY Completed by (Provide initials)

TARGET SHEET

EPA REGION VIII SUPERFUND DOCUMENT MANAGEMENT SYSTEM

DOCUMENT NUMBER: 2031336

SITE NAME: Libby Asbestos	•
DOCUMENT DATE: April, 2005	
	:
DOCUMENT NOT SCANNED Due to one of the following reasons:	
□ PHOTOGRAPHS	
□ 3-DIMENSIONAL	
☑ OVERSIZED	•
□ AUDIO/VISUAL	
☐ PERMANENTLY BOUND DOCUMENTS	
□ POOR LEGIBILITY	
□ OTHER	
□ NOT AVAILABLE	
☐ TYPES OF DOCUMENTS NOT TO BE SCANNED (Data Packages, Data Validation, Sampling Data, CBI, Chain of Custo)	ody)
DOCUMENT DESCRIPTION:	
Cabinet View Country Club Site Features and Soil Sampling Results	
	—